



XTO Energy Inc.
22777 Springwoods Village Parkway
Spring, Texas 77389

October 30, 2018

U.S. Environmental Protection Agency
Region 8 – Regional Administrator
1595 Wynkoop Street
Denver, CO 80202-1129

RECEIVED

1Z36Y1043527953875

NOV 5 - 2018

**Office of Enforcement, Compliance
and Environmental Justice**

**RE: XTO Energy Inc.
40 CFR Part 60 Subpart OOOO Compliance Report**

Dear Administrator:

XTO Energy Inc. (XTO) and its subsidiaries own and/or operate multiple sources within EPA Region 8. These sources are subject to annual compliance reporting requirements as specified in *40 CFR Part 60 subpart OOOO/OOOOa*. Please find the enclosed compliance report for the reporting period between August 3, 2017 and October 14, 2018.

Our intent is to align existing OOOO and OOOOa reporting into one annual report with a reporting period as specified in *60.5420(b)&60.5420a(b)*. We realize some information may be from outside the standard OOOOa reporting period but we feel this is necessary to simplify the reporting moving forward. XTO will make every attempt to avoid submitting duplicate information when reporting in 2019. With this report we will also no longer submit a compliance report according to 60.5420 in January, 2019. If we are mistaken on our ability to combine these reports into a single reporting period we request the agency to notify us in writing as soon as practical.

In the event you have any questions or need any additional information, please contact William Payne (Environmental Specialist) at (832) 625-0104 or via email at william_payne@xtoenergy.com.

I certify based on information and belief formed after reasonable inquiry that the statements and information in these document(s) are true, accurate, and complete to the best of my knowledge *with the exception of one data field that we inadvertently failed to pull into the report*. We will send a revised report within a week with the additional data field incorporated.

Sincerely,

(b) (6)

Nina Hutton
Sr. EHS Manager - Environmental
XTO Energy Inc.

CC: Colorado PH&E
Wyoming Department of Environmental Quality
North Dakota Department of Health
Montana Department of Environmental Quality
Utah Department of Environmental Quality

1Z36Y1043537568488
1Z36Y1043531818692
1Z36Y1043536480501
1Z36Y1043538289911
1Z36Y1043526542927

EPA

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XTO Energy Inc.
NSPS 0000/0000a Recipricating Compressor
Reporting Period
08/03/2017 - 10/14/2018

EPA Region	State	Location	Unit #	Unit S.N.	Make	Model	Install Date	Start Date	Equip. Status	Operational Hours as of 10-14-2018 or Shutdown	Packing Changed During Reporting Period	Last Packing Change Date	Hours at Change	Hours Since Last Change	Months Since Last Change During Reporting Period	Deviations	Permit Owner	Agency Facility #	Permit #	County / Parish	Latitude	Longitude	Status
8	ND	Alexander Station	005623	F-35726	Ariel	JGE-2	9/26/2011	12/21/2012	Original		No	11/10/2015	25286		35	None	Nesson Gathering System, LLC		NA	Williams	(b) (9)	(b) (9)	Active
8	ND	Alexander Station	007160	F-44275	Ariel	JGE-2	7/1/2015	1/25/2016	Original		No				32	None	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Hove Station	005624	F-35736	Ariel	JGE-2	9/29/2011	4/3/2012	Original		No	9/22/2015	30408		36	Yes	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Hove Station	005882	F-39357	Ariel	JGE-2	1/4/2013	4/3/2013	Original		No	10/26/2015	22464		35	None	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Hove Station	6646	F-44274	Ariel	JGE-2	6/16/2014	8/15/2014	Original		No	10/20/2015			35	None	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Nesson Gathering HP Station	6649	F-43843	Ariel	JGT-2	7/16/2014	9/3/2014	Original		No	10/4/2017			12	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Nesson Gathering HP Station	6651	F-44063	Ariel	JGT-4	10/14/2014	12/17/2014	Original		No	10/20/2017			11	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Nesson Gathering HP Station	005965	F-40231	Ariel	JGT-2	2/1/2014	6/13/2014	Original		No	9/20/2017			12	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Nesson Gathering HP Station	6652	F-44264	Ariel	JGE-4	11/6/2014	2/11/2015	Original		No	1/29/2018	25992		8	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Nesson Gathering LP Station	6650	F-43533	Ariel	JGT-2	7/16/2014	10/1/2014	Original		No	10/25/2017			11	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Nesson Gathering Station	5959	F-39876	Ariel	JGR-2	2/1/2014	2/1/2014	Original		No	8/27/2017			13	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Nesson Gathering Station	5958	F-39877	Ariel	JGR-2	2/1/2014	2/1/2014	Original		No	7/12/2017			15	None	Nesson Gathering System, LLC		O08003	Williams			Active
8	ND	Pal Station	5720	F-36782	Ariel	JGE-2	1/24/2012	4/17/2012	Original		No	9/19/2015			36	Yes	Nesson Gathering System, LLC		O15014	Williams			Active
8	ND	Stockman	6725	F-45166	Ariel	JGT-4	7/1/2015	11/11/2015	Original		No	8/22/2018	24360		1	None	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Stockman	6726	F-45167	Ariel	JGT-4	7/1/2015	11/11/2015	Original		No	8/2/2018	23880		2	None	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Woodrow	6727	F-45240	Ariel	JGE-4		6/9/2016	Original		No				28	None	Nesson Gathering System, LLC		NA	Williams			Active
8	ND	Woodrow	6728	F-45241	Ariel	JGE-4		6/9/2016	Original		No				28	None	Nesson Gathering System, LLC		NA	Williams			Active
8	WY	Fontenelle 14-27	804414(WY)	F-36569	Ariel	JGT-4	2/12/2015	3/6/2015	Original	30776	Yes	1/17/2018	24503	6273	8	None	XTO Energy, Inc.		MD-16544	Lincoln			Active

NSPS 0000/0000a Well Completion.
Reporting period 08/03/2017 -10/14/2018

Well API	EPA Region	State Name	County Name	Well Name	Latitude	Longitude	Sub Basin	Start Date	Start Time	End Date	End Time	Hours of Flowback Duration	Hours Gas Recovered	Hours Gas Vented	Flare Hours	Frac Load (bbls)
25-083-22265	8	MONTANA	RICHLAND	Albin 24X-28	(b) (9)	(b) (9)	Oil	8/24/2017	12:00 PM	8/26/2017	6:00 PM	55	0	0	0	1
25-083-21980	8	MONTANA	RICHLAND	BR 44X-01	(b) (9)	(b) (9)	Oil	9/9/2017	11:00 AM	9/10/2017	1:00 PM	27	0	0	0	1
25-083-22005	8	MONTANA	RICHLAND	BR Hill 31X-29	(b) (9)	(b) (9)	Oil	8/31/2017	2:00 PM	9/1/2017	10:00 PM	33	0	0	0	1
25-083-22083	8	MONTANA	RICHLAND	Hill 21X-29	(b) (9)	(b) (9)	Oil	8/28/2017	10:00 PM	8/30/2017	5:00 AM	32	0	0	0	1
25-083-21950	8	MONTANA	RICHLAND	State 21X-16	(b) (9)	(b) (9)	Oil	9/6/2017	12:00 AM	9/6/2017	6:00 AM	7	0	0	0	1
33-025-03009	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19A	(b) (9)	(b) (9)		12/12/2017	9:00 PM	12/14/2017	6:00 AM	28	0	0	0	1
33-025-03009	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19A	(b) (9)	(b) (9)	Oil	5/30/2018	12:00 AM	5/31/2018	10:00 AM	35	0	0	29	423,427
33-025-03009	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19A	(b) (9)	(b) (9)	Oil	6/27/2018	10:00 AM	7/2/2018	6:00 AM	106	0	0	97	423,427
33-025-03011	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19AXB	(b) (9)	(b) (9)		12/11/2017	8:00 AM	12/12/2017	7:00 AM	22	0	0	0	1
33-025-03011	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19AXB	(b) (9)	(b) (9)	Oil	6/2/2018	11:00 AM	6/8/2018	10:00 PM	33	0	0	22	524,994
33-025-03011	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19AXB	(b) (9)	(b) (9)	Oil	8/4/2018	1:00 PM	8/6/2018	6:00 AM	42	0	0	40	1
33-025-03010	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19E2	(b) (9)	(b) (9)	Oil	6/1/2018	12:00 AM	6/1/2018	9:00 PM	22	0	0	17	435,136
33-025-03010	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19E2	(b) (9)	(b) (9)	Oil	6/12/2018	8:00 PM	6/16/2018	9:00 PM	80	0	0	77	435,136
33-025-01327	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19F	(b) (9)	(b) (9)	Oil	6/11/2018	12:00 AM	6/12/2018	1:00 AM	26	0	0	4	192,857
33-025-01327	8	NORTH DAKOTA	DUNN	Bang Federal 21X-19F	(b) (9)	(b) (9)	Oil	7/30/2018	1:00 PM	8/2/2018	7:00 AM	67	0	0	66	1
33-025-03163	8	NORTH DAKOTA	DUNN	Bear Creek 31X-03BXC	(b) (9)	(b) (9)	Oil	4/17/2018	4:00 PM	4/18/2018	6:00 AM	15	0	0	12	1
33-025-03163	8	NORTH DAKOTA	DUNN	Bear Creek 31X-03BXC	(b) (9)	(b) (9)	Oil	5/5/2018	9:00 AM	5/6/2018	9:00 AM	25	0	0	25	249,699
33-025-03163	8	NORTH DAKOTA	DUNN	Bear Creek 31X-03BXC	(b) (9)	(b) (9)	Oil	5/21/2018	4:00 PM	5/26/2018	6:00 AM	106	106	0	0	1
33-025-03164	8	NORTH DAKOTA	DUNN	Bear Creek 31X-03F2	(b) (9)	(b) (9)	Oil	4/14/2018	12:00 AM	4/17/2018	2:00 PM	58	0	0	55	1
33-025-03164	8	NORTH DAKOTA	DUNN	Bear Creek 31X-03F2	(b) (9)	(b) (9)	Oil	5/6/2018	6:00 PM	5/7/2018	5:00 PM	24	0	0	24	251,113
33-025-03164	8	NORTH DAKOTA	DUNN	Bear Creek 31X-03F2	(b) (9)	(b) (9)	Oil	5/19/2018	9:00 AM	5/21/2018	5:00 AM	45	44	0	0	1
33-025-03161	8	NORTH DAKOTA	DUNN	Bear Creek Federal 31X-03C	(b) (9)	(b) (9)	Oil	9/28/2017	8:00 PM	10/9/2017	9:00 AM	240	0	0	237	241,863
33-025-03408	8	NORTH DAKOTA	DUNN	Bobcat Federal 11X-2A-S	(b) (9)	(b) (9)		9/7/2018	8:00 AM	9/11/2018	11:00 AM	100	0	0	0	1
33-025-03408	8	NORTH DAKOTA	DUNN	Bobcat Federal 11X-2A-S	(b) (9)	(b) (9)		10/12/2018	1:00 AM	10/12/2018	5:00 PM	17	0	0	0	1
33-025-03406	8	NORTH DAKOTA	DUNN	Bobcat Federal 14X-35AXB	(b) (9)	(b) (9)		10/10/2018	4:00 PM	10/11/2018	5:00 AM	14	0	0	0	1
33-025-03404	8	NORTH DAKOTA	DUNN	Bobcat Federal 14X-35E2	(b) (9)	(b) (9)		10/2/2018	12:00 PM	10/2/2018	2:00 PM	3	0	0	0	1
33-025-01166	8	NORTH DAKOTA	DUNN	Deep Creek 43X-05	(b) (9)	(b) (9)	Oil	8/13/2018	2:00 PM	8/14/2018	7:00 PM	30	0	0	28	68,052
33-025-02757	8	NORTH DAKOTA	DUNN	Deep Creek Federal 43X-05D	(b) (9)	(b) (9)	Oil	8/11/2018	12:00 PM	8/12/2018	3:00 PM	28	0	0	27	111,114
33-025-02757	8	NORTH DAKOTA	DUNN	Deep Creek Federal 43X-05D	(b) (9)	(b) (9)	Oil	9/21/2018	5:00 PM	10/16/2018	6:00 AM	383	38	0	344	1
33-025-02756	8	NORTH DAKOTA	DUNN	Deep Creek Federal 43X-05G	(b) (9)	(b) (9)	Oil	8/9/2018	3:00 PM	8/10/2018	12:00 PM	22	0	0	18	108,515
33-025-02756	8	NORTH DAKOTA	DUNN	Deep Creek Federal 43X-05G	(b) (9)	(b) (9)	Oil	9/14/2018	9:00 AM	9/20/2018	5:00 AM	141	0	0	138	1
33-025-02758	8	NORTH DAKOTA	DUNN	Deep Creek Federal 43X-05H	(b) (9)	(b) (9)	Oil	8/7/2018	9:00 AM	8/8/2018	9:00 PM	27	0	0	27	118,211
33-025-02758	8	NORTH DAKOTA	DUNN	Deep Creek Federal 43X-05H	(b) (9)	(b) (9)	Oil	9/14/2018	4:00 PM	9/20/2018	5:00 AM	134	0	0	133	1
33-025-03228	8	NORTH DAKOTA	DUNN	Deep Creek Federal 44X-05A	(b) (9)	(b) (9)		9/30/2018	6:00 PM	10/2/2018	5:00 AM	36	0	0	29	543,806
33-025-03231	8	NORTH DAKOTA	DUNN	Deep Creek Federal 44X-05C	(b) (9)	(b) (9)		2/22/2018	6:00 PM	2/23/2018	6:00 PM	25	0	0	0	1
33-025-03229	8	NORTH DAKOTA	DUNN	Deep Creek Federal 44X-05E	(b) (9)	(b) (9)		2/25/2018	6:00 PM	2/26/2018	4:00 PM	23	0	0	0	1
33-025-03229	8	NORTH DAKOTA	DUNN	Deep Creek Federal 44X-05E	(b) (9)	(b) (9)		10/2/2018	9:00 PM	10/3/2018	5:00 PM	21	0	0	21	541,018
33-025-03233	8	NORTH DAKOTA	DUNN	Deep Creek Federal 44X-05F2	(b) (9)	(b) (9)		2/24/2018	8:00 AM	2/25/2018	6:00 AM	23	0	0	0	1
33-025-03233	8	NORTH DAKOTA	DUNN	Deep Creek Federal 44X-05F2	(b) (9)	(b) (9)		10/4/2018	2:00 PM	10/7/2018	11:00 PM	65	0	0	16	543,687
33-025-03073	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21A	(b) (9)	(b) (9)	Oil	9/9/2017	12:00 PM	9/11/2017	1:00 PM	50	0	0	50	1
33-025-03076	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21AXD	(b) (9)	(b) (9)	Oil	8/26/2017	8:00 PM	8/31/2017	6:00 AM	81	9	0	69	1
33-025-01341	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21B	(b) (9)	(b) (9)	Oil	8/11/2017	5:00 PM	8/22/2017	6:00 AM	165	121	0	42	1
33-025-03069	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21C	(b) (9)	(b) (9)	Oil	9/27/2017	4:00 PM	10/2/2017	6:00 AM	111	0	0	110	1
33-025-03069	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21C	(b) (9)	(b) (9)	Oil	1/5/2018	10:00 PM	1/7/2018	2:00 AM	29	0	0	11	1
33-025-03071	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21CXD	(b) (9)	(b) (9)	Oil	9/18/2017	11:00 AM	9/26/2017	4:00 AM	186	0	0	185	1

* There are times where gas is not available in the flowback material to operate the separator and recover, vent or flare gas. This accounts for the difference in Total Flowback Hours and the sum of recover, vent or flare hours.

NSPS OOOO/OOOOa Well Completion.
Reporting period 08/03/2017 -10/14/2018

33-025-03107	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21D	(b) (9)	(b) (9)	Oil	9/13/2017	9:00 PM	10/12/2017	5:00 PM	93	0	0	92	1
33-025-03107	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21D			Oil	12/27/2017	4:00 AM	12/28/2017	8:00 AM	29	0	0	22	1
33-025-03072	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21E			Oil	9/5/2017	4:00 PM	9/8/2017	6:00 AM	63	19	0	43	1
33-025-03072	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21E			Oil	12/22/2017	11:00 AM	12/23/2017	11:00 AM	25	0	0	13	1
33-025-03148	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21EXH			Oil	9/1/2017	4:00 PM	9/5/2017	6:00 AM	87	55	0	31	1
33-025-03074	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21F			Oil	8/22/2017	2:00 PM	10/10/2017	6:00 AM	104	78	0	22	1
33-025-03074	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21F			Oil	12/24/2017	7:00 AM	12/25/2017	11:00 AM	29	0	0	23	1
33-025-03068	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21G				10/3/2017	9:00 AM	10/4/2017	10:00 AM	10	0	0	8	1
33-025-03068	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21G			Oil	1/7/2018	7:00 PM	1/8/2018	3:00 PM	21	0	0	15	1
33-025-03070	8	NORTH DAKOTA	DUNN	FBIR BlackMedicine 24X-21H			Oil	9/27/2017	11:00 AM	10/9/2017	12:00 AM	62	0	0	58	1
33-025-00789	8	NORTH DAKOTA	DUNN	Fenton Federal 11X-20			Oil	5/24/2018	6:00 PM	5/25/2018	6:00 AM	13	0	0	13	91,456
33-025-00789	8	NORTH DAKOTA	DUNN	Fenton Federal 11X-20			Oil	6/1/2018	3:00 PM	6/5/2018	12:00 PM	80	77	0	0	1
33-025-03013	8	NORTH DAKOTA	DUNN	George Federal 21X-19A			Oil	6/7/2018	1:00 PM	6/8/2018	8:00 PM	32	0	0	23	520,446
33-025-03013	8	NORTH DAKOTA	DUNN	George Federal 21X-19A			Oil	7/16/2018	11:00 AM	7/23/2018	12:00 AM	158	0	0	158	520,446
33-025-01328	8	NORTH DAKOTA	DUNN	George Federal 21X-19B			Oil	6/6/2018	1:00 AM	6/6/2018	11:00 PM	23	0	0	16	129,208
33-025-01328	8	NORTH DAKOTA	DUNN	George Federal 21X-19B			Oil	7/7/2018	7:00 AM	7/12/2018	12:00 AM	111	0	0	110	1
33-025-03012	8	NORTH DAKOTA	DUNN	George Federal 21X-19E			Oil	6/9/2018	10:00 AM	6/10/2018	1:00 PM	28	0	0	21	1
33-025-03012	8	NORTH DAKOTA	DUNN	George Federal 21X-19E			Oil	7/23/2018	2:00 PM	7/30/2018	12:00 AM	155	0	0	154	1
33-025-03014	8	NORTH DAKOTA	DUNN	George Federal 21X-19F2				12/14/2017	7:00 PM	12/15/2017	11:00 AM	17	0	0	0	1
33-025-03014	8	NORTH DAKOTA	DUNN	George Federal 21X-19F2			Oil	6/4/2018	11:00 AM	6/5/2018	8:00 AM	22	0	0	16	1
33-025-03014	8	NORTH DAKOTA	DUNN	George Federal 21X-19F2			Oil	7/12/2018	11:00 AM	7/16/2018	12:00 AM	86	0	0	86	1
33-025-00914	8	NORTH DAKOTA	DUNN	Jorgenson 43X-05			Oil	9/9/2018	4:00 PM	9/10/2018	6:00 AM	15	0	0	14	118,622
33-025-00914	8	NORTH DAKOTA	DUNN	Jorgenson 43X-05			Oil	9/25/2018	12:00 PM	10/15/2018	6:00 AM	280	0	0	279	1
33-025-03226	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05C				2/26/2018	8:00 PM	2/28/2018	5:00 PM	27	0	0	0	1
33-025-03224	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05D				1/18/2018	8:00 PM	1/23/2018	1:00 PM	92	0	0	0	1
33-025-03224	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05D				8/1/2018	4:00 AM	8/2/2018	3:00 AM	24	0	0	0	1
33-025-03227	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05FXG				1/26/2018	8:00 PM	1/27/2018	8:00 PM	24	0	0	0	1
33-025-03227	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05FXG				8/2/2018	7:00 PM	8/4/2018	7:00 AM	30	0	0	5	1
33-025-03225	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05G2				1/25/2018	4:00 AM	1/26/2018	1:00 AM	22	0	0	0	1
33-025-03223	8	NORTH DAKOTA	DUNN	Jorgenson Federal 44X-05H				1/16/2018	9:00 PM	1/17/2018	10:00 PM	26	0	0	0	1
33-025-02937	8	NORTH DAKOTA	DUNN	Kaye Federal 13X-03D			Oil	5/18/2018	2:00 PM	5/20/2018	4:00 AM	39	0	0	0	1
33-025-02937	8	NORTH DAKOTA	DUNN	Kaye Federal 13X-03D			Oil	7/8/2018	3:00 AM	7/9/2018	3:00 PM	37	0	0	36	57,432
33-025-02937	8	NORTH DAKOTA	DUNN	Kaye Federal 13X-03D			Oil	8/17/2018	8:00 PM	8/23/2018	9:00 AM	132	0	0	130	1
33-025-02938	8	NORTH DAKOTA	DUNN	Kaye Federal 13X-03G			Oil	7/6/2018	4:00 PM	7/7/2018	5:00 PM	26	0	0	18	209,762
33-025-02936	8	NORTH DAKOTA	DUNN	Kaye Federal 13X-03H			Oil	7/10/2018	10:00 AM	7/12/2018	11:00 PM	49	0	0	39	199,170
33-025-02450	8	NORTH DAKOTA	DUNN	Kaye Federal 43X-04B			Oil	7/15/2018	2:00 AM	7/16/2018	8:00 PM	40	0	0	0	81,731
33-025-00412	8	NORTH DAKOTA	DUNN	Knutson Werre 34-03 WIW				10/25/2017	8:00 PM	10/26/2017	7:00 AM	12	0	0	0	1
33-025-03055	8	NORTH DAKOTA	DUNN	Little Pete Federal 41X-03D			Oil	8/31/2017	10:00 AM	9/5/2017	10:00 AM	121	0	0	121	1
33-025-03057	8	NORTH DAKOTA	DUNN	Little Pete Federal 41X-03DXA			Oil	9/12/2017	2:00 PM	9/21/2017	8:00 AM	134	1	0	132	1
33-025-03054	8	NORTH DAKOTA	DUNN	Little Pete Federal 41X-03G2			Oil	8/26/2017	2:00 PM	8/30/2017	1:00 PM	93	0	0	93	1
33-025-03056	8	NORTH DAKOTA	DUNN	Little Pete Federal 41X-03H			Oil	9/5/2017	6:00 PM	9/11/2017	9:00 AM	123	0	0	122	1
33-025-03058	8	NORTH DAKOTA	DUNN	Little Pete Federal 41X-03HxE2			Oil	9/21/2017	4:00 PM	9/24/2017	2:00 AM	59	0	0	59	1
33-025-03210	8	NORTH DAKOTA	DUNN	Nygaard Federal 13X-05AXD				12/3/2017	11:00 AM	12/4/2017	6:00 AM	20	0	0	0	1
33-025-03206	8	NORTH DAKOTA	DUNN	Nygaard Federal 13X-05BXC				12/8/2017	1:00 AM	12/9/2017	5:00 AM	27	0	0	0	1
33-025-03206	8	NORTH DAKOTA	DUNN	Nygaard Federal 13X-05BXC				9/5/2018	11:00 AM	9/8/2018	7:00 AM	69	0	0	6	1
33-025-03209	8	NORTH DAKOTA	DUNN	Nygaard Federal 13X-05EXH				12/5/2017	6:00 PM	12/7/2017	6:00 AM	36	0	0	0	1
33-025-00793	8	NORTH DAKOTA	DUNN	Robert Federal 11X-20			Oil	8/18/2018	12:00 PM	8/20/2018	6:00 AM	42	0	0	35	150,881

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33-025-00793	8	NORTH DAKOTA	DUNN	Robert Federal 11X-20	(b) (9)	(b) (9)	Oil	9/6/2018	1:00 PM	9/19/2018	11:00 PM	108	0	0	106	1
33-025-02567	8	NORTH DAKOTA	DUNN	Schettler 14X-09C			Oil	5/11/2018	11:00 AM	5/11/2018	10:00 PM	12	0	0	6	40,908
33-025-02567	8	NORTH DAKOTA	DUNN	Schettler 14X-09C			Oil	5/21/2018	12:00 PM	5/22/2018	6:00 AM	19	5	0	0	1
33-025-02569	8	NORTH DAKOTA	DUNN	Schettler 14X-09D			Oil	5/14/2018	11:00 PM	5/15/2018	8:00 AM	10	0	0	5	42,313
33-025-02569	8	NORTH DAKOTA	DUNN	Schettler 14X-09D			Oil	5/24/2018	3:00 PM	5/26/2018	6:00 AM	40	34	0	0	1
33-025-02566	8	NORTH DAKOTA	DUNN	Schettler 14X-09F			Oil	5/10/2018	9:00 AM	5/10/2018	11:00 PM	15	0	0	11	49,319
33-025-02566	8	NORTH DAKOTA	DUNN	Schettler 14X-09F			Oil	5/22/2018	9:00 AM	5/24/2018	7:00 AM	45	42	0	0	1
33-025-02568	8	NORTH DAKOTA	DUNN	Schettler 14X-09G			Oil	5/12/2018	12:00 PM	5/12/2018	10:00 PM	11	0	0	6	38,288
33-025-02568	8	NORTH DAKOTA	DUNN	Schettler 14X-09G			Oil	5/26/2018	1:00 PM	5/28/2018	6:00 AM	42	42	0	0	1
33-025-02875	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36A			Oil	10/15/2017	9:00 AM	10/17/2017	6:00 AM	46	46	0	0	1
33-025-02877	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36B			Oil	10/22/2017	3:00 PM	10/24/2017	6:00 AM	40	20	0	20	1
33-025-02878	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36C			Oil	10/19/2017	6:00 PM	10/22/2017	6:00 AM	61	30	0	31	1
33-025-02880	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36D			Oil	10/31/2017	8:00 AM	11/2/2017	6:00 AM	47	0	0	46	1
33-025-02876	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36E			Oil	10/17/2017	9:00 AM	10/19/2017	4:00 AM	44	42	0	0	1
33-025-02879	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36G			Oil	10/24/2017	3:00 PM	10/27/2017	5:00 AM	60	54	0	6	1
33-025-02881	8	NORTH DAKOTA	DUNN	TAT State Federal 14X-36H			Oil	10/27/2017	11:00 AM	10/30/2017	3:00 AM	65	64	0	0	1
33-025-00667	8	NORTH DAKOTA	DUNN	Tysver Federal 44-10H			Oil	5/17/2018	12:00 AM	5/20/2018	11:00 PM	15	0	0	0	1
33-025-03113	8	NORTH DAKOTA	DUNN	Werre Trust 14X-34EXH2-S			Oil	1/22/2018	8:00 PM	1/25/2018	12:00 PM	35	0	0	0	362,849
33-025-03113	8	NORTH DAKOTA	DUNN	Werre Trust 14X-34EXH2-S			Oil	1/27/2018	11:00 PM	2/2/2018	9:00 AM	52	0	0	20	1
33-025-03113	8	NORTH DAKOTA	DUNN	Werre Trust 14X-34EXH2-S			Oil	4/28/2018	7:00 PM	4/29/2018	9:00 PM	27	0	0	20	431,502
33-025-03113	8	NORTH DAKOTA	DUNN	Werre Trust 14X-34EXH2-S			Oil	5/15/2018	5:00 PM	5/18/2018	7:00 AM	62	62	0	0	431,502
33-025-03113	8	NORTH DAKOTA	DUNN	Werre Trust 14X-34EXH2-S			Oil	7/11/2018	12:00 PM	7/16/2018	5:00 PM	126	0	0	124	431,502
33-025-00883	8	NORTH DAKOTA	DUNN	Werre Trust 21-03H			Oil	9/24/2018	3:00 PM	9/24/2018	9:00 PM	7	0	0	0	1
33-025-03093	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03A			Oil	3/20/2018	5:00 AM	3/21/2018	6:00 AM	25	0	0	25	1
33-025-03093	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03A			Oil	7/16/2018	2:00 PM	8/20/2018	10:00 AM	830	0	0	827	1
33-025-03091	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03B				8/3/2017	7:00 PM	8/4/2017	6:00 AM	8	0	0	0	1
33-025-03091	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03B			Oil	3/14/2018	5:00 PM	3/16/2018	1:00 PM	45	0	0	37	805,643
33-025-03091	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03B			Oil	5/26/2018	9:00 PM	7/13/2018	6:00 AM	1138	0	0	1137	1
33-025-03092	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03E				8/4/2017	10:00 AM	8/5/2017	6:00 AM	10	0	0	0	1
33-025-03092	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03E			Oil	3/17/2018	4:00 AM	3/19/2018	12:00 AM	45	0	0	44	1
33-025-03092	8	NORTH DAKOTA	DUNN	Werre Trust 21X-03E			Oil	8/22/2018	1:00 PM	8/30/2018	3:00 PM	191	0	0	190	1
33-025-00966	8	NORTH DAKOTA	DUNN	Werre Trust 44-34H			Oil	4/19/2018	2:00 PM	4/21/2018	10:00 AM	45	43	0	1	1
33-025-02694	8	NORTH DAKOTA	DUNN	Werre Trust 44X-34C			Oil	4/3/2018	2:00 AM	4/4/2018	9:00 AM	32	0	0	29	70,553
33-025-02694	8	NORTH DAKOTA	DUNN	Werre Trust 44X-34C			Oil	4/17/2018	2:00 PM	4/19/2018	11:00 AM	46	45	0	1	1
33-025-02695	8	NORTH DAKOTA	DUNN	Werre Trust 44X-34G			Oil	4/4/2018	6:00 PM	4/5/2018	4:00 PM	23	0	0	22	96,829
33-025-02695	8	NORTH DAKOTA	DUNN	Werre Trust 44X-34G			Oil	4/15/2018	1:00 PM	4/17/2018	11:00 AM	47	42	0	4	1
33-025-03110	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34A				8/7/2017	5:00 PM	8/9/2017	1:00 AM	27	0	0	0	1
33-025-03110	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34A			Oil	4/18/2018	5:00 PM	4/19/2018	6:00 PM	26	0	0	21	517,902
33-025-03110	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34A			Oil	9/2/2018	7:00 AM	9/6/2018	6:00 AM	96	0	0	95	1
33-025-03108	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXB			Oil	1/26/2018	5:00 AM	1/26/2018	3:00 PM	11	0	0	0	395,327
33-025-03108	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXB			Oil	2/3/2018	3:00 AM	2/4/2018	10:00 AM	26	0	0	0	1
33-025-03108	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXB			Oil	4/23/2018	6:00 AM	4/24/2018	6:00 PM	36	0	0	35	101,798
33-025-03108	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXB			Oil	7/17/2018	6:00 PM	7/26/2018	6:00 PM	217	0	0	216	1
33-025-03112	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXD-N				8/6/2017	6:00 AM	8/9/2017	12:00 PM	34	0	0	0	1
33-025-03112	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXD-N			Oil	4/27/2018	1:00 AM	4/28/2018	7:00 AM	31	0	0	31	508,344
33-025-03112	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXD-N			Oil	5/15/2018	9:00 PM	5/18/2018	7:00 AM	53	0	0	52	1
33-025-03114	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXD-S			Oil	4/30/2018	8:00 AM	5/1/2018	12:00 AM	17	0	0	16	1

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33-025-03114	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXD-S	(b) (9)	(b) (9)	Oil	5/9/2018	3:00 PM	5/15/2018	3:00 AM	91	91	0	0	398,388
33-025-03114	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34AXD-S			Oil	7/30/2018	9:00 AM	8/5/2018	3:00 PM	151	0	0	148	398,388
33-025-03109	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34E			Oil	2/4/2018	3:00 AM	2/6/2018	6:00 AM	30	0	0	0	1
33-025-03109	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34E			Oil	5/9/2018	3:00 PM	5/15/2018	2:00 AM	130	0	0	130	1
33-025-03111	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34EXH2-N			Oil	4/25/2018	9:00 AM	4/26/2018	10:00 AM	26	0	0	26	512,638
33-025-03111	8	NORTH DAKOTA	DUNN	Werre Trust Federal 14X-34EXH2-N			Oil	5/18/2018	1:00 PM	5/23/2018	6:00 AM	114	3	0	111	1
33-025-03087	8	NORTH DAKOTA	DUNN	Werre Trust Federal 21X-03B-N				8/1/2017	1:00 PM	8/3/2017	1:00 PM	8	0	0	0	1
33-025-03087	8	NORTH DAKOTA	DUNN	Werre Trust Federal 21X-03B-N			Oil	3/28/2018	9:00 PM	3/30/2018	6:00 AM	34	0	0	32	511,430
33-025-03087	8	NORTH DAKOTA	DUNN	Werre Trust Federal 21X-03B-N			Oil	5/3/2018	8:00 PM	5/4/2018	6:00 PM	23	23	0	0	1
33-025-03087	8	NORTH DAKOTA	DUNN	Werre Trust Federal 21X-03B-N			Oil	5/15/2018	8:00 PM	5/21/2018	6:00 AM	122	120	0	0	1
33-025-03088	8	NORTH DAKOTA	DUNN	Werre Trust Federal 21X-03F2-N			Oil	4/28/2018	10:00 AM	5/3/2018	6:00 AM	109	12	0	97	1
33-053-06389	8	NORTH DAKOTA	MC KENZIE	Eckert 41X-06G			Oil	7/21/2018	8:00 PM	7/22/2018	6:00 PM	18	0	0	0	1
33-053-04045	8	NORTH DAKOTA	MC KENZIE	Gilbertson 31-16SEH			Oil	4/18/2018	2:00 AM	4/18/2018	9:00 PM	20	0	0	0	40,634
33-053-04164	8	NORTH DAKOTA	MC KENZIE	Gilbertson 41-16SEH			Oil	9/26/2017	9:00 AM	9/28/2017	8:00 AM	48	0	0	48	1
33-053-04164	8	NORTH DAKOTA	MC KENZIE	Gilbertson 41-16SEH			Oil	10/24/2017	2:00 PM	10/26/2017	12:00 AM	35	0	0	35	1
33-053-04165	8	NORTH DAKOTA	MC KENZIE	Gilbertson 41-16SH			Oil	9/28/2017	10:00 AM	10/3/2017	1:00 PM	121	0	0	120	1
33-053-07191	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17A			Oil	11/27/2017	3:00 AM	11/28/2017	3:00 PM	37	0	0	33	229,362
33-053-07191	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17A			Oil	12/8/2017	2:00 PM	2/24/2018	7:00 PM	1826	1795	0	27	1
33-053-07216	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17AXD			Oil	11/22/2017	3:00 PM	11/24/2017	10:00 AM	44	0	0	38	215,954
33-053-07216	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17AXD			Oil	12/15/2017	3:00 PM	3/13/2018	7:00 PM	2111	1830	0	280	1
33-053-07193	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17B			Oil	12/1/2017	4:00 PM	12/3/2017	1:00 AM	34	0	0	27	217,012
33-053-07193	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17B			Oil	12/14/2017	1:00 PM	3/14/2018	1:00 PM	2158	1860	0	298	1
33-053-07190	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17E			Oil	11/24/2017	11:00 PM	11/26/2017	1:00 PM	39	0	0	28	218,712
33-053-07190	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17E			Oil	12/14/2017	2:00 PM	1/25/2018	7:00 PM	1009	801	0	76	1
33-053-07192	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17F			Oil	11/28/2017	9:00 AM	11/29/2017	9:00 PM	37	0	0	27	243,266
33-053-07192	8	NORTH DAKOTA	MC KENZIE	Lund 21X-17F			Oil	12/8/2017	2:00 PM	2/14/2018	12:00 AM	1578	1548	0	27	1
33-053-07413	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17C			Oil	1/26/2018	10:00 AM	2/9/2018	4:00 AM	331	0	0	330	1
33-053-07415	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17D				12/16/2017	11:00 AM	12/18/2017	1:00 AM	39	0	0	38	1
33-053-07415	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17D			Oil	1/25/2018	10:00 AM	2/8/2018	4:00 AM	330	0	0	330	1
33-053-07412	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17G				12/23/2017	6:00 PM	12/25/2017	8:00 PM	51	0	0	45	321,255
33-053-07412	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17G			Oil	1/13/2018	2:00 AM	1/26/2018	3:00 AM	314	0	0	313	1
33-053-07414	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17H2				12/18/2017	1:00 PM	12/19/2017	10:00 PM	34	0	0	26	312,988
33-053-07414	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17H2			Oil	2/8/2018	11:00 AM	2/22/2018	3:00 AM	329	0	0	328	1
33-053-07416	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17HXE				12/14/2017	1:00 AM	12/15/2017	3:00 PM	39	0	0	35	314,583
33-053-07416	8	NORTH DAKOTA	MC KENZIE	Lund 41X-17HXE			Oil	1/12/2018	4:00 AM	1/25/2018	4:00 AM	313	0	0	312	1
33-053-03821	8	NORTH DAKOTA	MC KENZIE	Lund 44-08NH			Oil	6/26/2018	1:00 AM	6/26/2018	8:00 PM	20	0	0	18	1
33-053-03821	8	NORTH DAKOTA	MC KENZIE	Lund 44-08NH			Oil	7/13/2018	4:00 PM	7/25/2018	6:00 AM	248	0	0	248	1
33-053-03822	8	NORTH DAKOTA	MC KENZIE	Lund 44-08SH				7/12/2018	2:00 PM	7/16/2018	6:00 AM	85	0	0	84	1
33-053-08088	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08C			Oil	6/5/2018	2:00 PM	6/28/2018	8:00 PM	78	0	0	70	1
33-053-08088	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08C			Oil	7/7/2018	6:00 PM	7/31/2018	9:00 AM	394	0	0	394	1
33-053-08091	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08DXA				12/11/2017	1:00 AM	12/12/2017	12:00 PM	35	0	0	0	1
33-053-08091	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08DXA			Oil	6/15/2018	1:00 PM	6/18/2018	5:00 PM	70	0	0	60	1
33-053-08091	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08DXA			Oil	7/12/2018	4:00 PM	8/24/2018	4:00 PM	414	0	0	413	1
33-053-08089	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08G				12/5/2017	3:00 AM	12/8/2017	3:00 AM	35	0	0	0	1
33-053-08089	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08G				3/24/2018	3:00 AM	3/25/2018	3:00 AM	6	0	0	0	129,698
33-053-08089	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08G				5/3/2018	10:00 AM	5/12/2018	11:00 AM	136	0	0	0	129,698
33-053-08090	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08H				12/8/2017	11:00 AM	12/9/2017	3:00 PM	29	0	0	0	1

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33-053-08090	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08H	(b) (9)	(b) (9)	Oil	6/22/2018	3:00 AM	6/24/2018	5:00 PM	59	0	0	58	523,939
33-053-08090	8	NORTH DAKOTA	MC KENZIE	Lund 44X-08H			Oil	7/12/2018	2:00 PM	8/4/2018	5:00 PM	397	0	0	396	1
33-053-03934	8	NORTH DAKOTA	MC KENZIE	Lundin 11-04SH			Oil	12/19/2017	11:00 PM	1/9/2018	10:00 AM	492	272	0	219	1
33-053-03934	8	NORTH DAKOTA	MC KENZIE	Lundin 11-04SH			Oil	7/21/2018	5:00 AM	7/22/2018	12:00 AM	20	0	0	0	37,216
33-053-03396	8	NORTH DAKOTA	MC KENZIE	Lundin 11-15SEH			Oil	10/21/2017	4:00 PM	10/22/2017	11:00 PM	31	0	0	26	1
33-053-03396	8	NORTH DAKOTA	MC KENZIE	Lundin 11-15SEH			Oil	12/6/2017	11:00 AM	12/12/2017	10:00 AM	144	0	0	144	1
33-053-07872	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-04AXD			Oil	11/15/2017	11:00 PM	11/19/2017	9:00 PM	59	0	0	40	415,272
33-053-07872	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-04AXD			Oil	12/8/2017	9:00 PM	12/19/2017	6:00 PM	208	0	0	207	1
33-053-07871	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-04E			Oil	11/11/2017	6:00 AM	11/13/2017	10:00 PM	65	0	0	61	422,513
33-053-07871	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-04E			Oil	11/24/2017	1:00 AM	12/8/2017	8:00 AM	317	4	0	309	1
33-053-07116	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15A			Oil	10/15/2017	12:00 PM	10/19/2017	1:00 AM	52	0	0	45	1
33-053-07116	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15A			Oil	10/31/2017	3:00 PM	12/5/2017	6:00 AM	820	819	0	0	1
33-053-07504	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15AXB			Oil	10/7/2017	8:00 PM	10/9/2017	8:00 AM	37	0	0	35	313,766
33-053-07504	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15AXB			Oil	10/31/2017	3:00 PM	12/5/2017	6:00 AM	817	816	0	0	1
33-053-07504	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15AXB			Oil	12/12/2017	1:00 PM	12/15/2017	1:00 PM	73	0	0	72	1
33-053-07115	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15E			Oil	10/19/2017	3:00 PM	10/20/2017	10:00 PM	30	0	0	29	365,951
33-053-07115	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15E			Oil	11/21/2017	11:00 PM	12/4/2017	10:00 PM	312	0	0	312	1
33-053-07117	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15EXH			Oil	8/20/2017	6:00 PM	8/21/2017	7:00 PM	26	0	0	8	1
33-053-07117	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15EXH			Oil	10/9/2017	11:00 PM	10/12/2017	12:00 PM	62	0	0	56	444,126
33-053-07117	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15EXH			Oil	11/1/2017	7:00 PM	11/13/2017	3:00 PM	281	0	0	280	1
33-053-07505	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15F			Oil	10/3/2017	8:00 AM	10/7/2017	3:00 AM	72	0	0	48	380,640
33-053-07505	8	NORTH DAKOTA	MC KENZIE	Lundin 11X-15F			Oil	11/13/2017	10:00 PM	11/21/2017	8:00 AM	179	0	0	178	1
33-053-07870	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 11X-04B			Oil	11/8/2017	6:00 PM	11/10/2017	3:00 PM	46	0	0	40	404,545
33-053-07870	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 11X-04B			Oil	2/27/2018	3:00 PM	3/7/2018	8:00 AM	186	0	0	186	1
33-053-07869	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 11X-04F			Oil	8/19/2017	12:00 PM	8/20/2017	5:00 AM	18	0	0	0	1
33-053-07869	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 11X-04F			Oil	11/6/2017	2:00 AM	11/8/2017	12:00 AM	47	0	0	41	394,749
33-053-07869	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 11X-04F			Oil	1/12/2018	7:00 AM	1/19/2018	11:00 AM	168	0	0	166	1
33-053-02937	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 31X-09			Oil	11/30/2017	10:00 PM	12/1/2017	8:00 PM	23	0	0	22	1
33-053-02937	8	NORTH DAKOTA	MC KENZIE	Lundin Federal 31X-09			Oil	12/7/2017	12:00 PM	1/3/2018	11:00 AM	646	646	0	0	1
33-053-06209	8	NORTH DAKOTA	MC KENZIE	Moses 21X-09A			Oil	1/6/2018	3:00 PM	1/7/2018	5:00 AM	15	0	0	14	38,376
33-053-06209	8	NORTH DAKOTA	MC KENZIE	Moses 21X-09A			Oil	1/10/2018	4:00 PM	1/15/2018	12:00 PM	117	0	0	116	1
33-053-06208	8	NORTH DAKOTA	MC KENZIE	Moses 21X-09B			Oil	1/14/2018	8:00 PM	1/15/2018	9:00 AM	14	0	0	4	1
33-053-05843	8	NORTH DAKOTA	MC KENZIE	Nelson Federal 21X-05A			Oil	8/17/2017	6:00 AM	8/19/2017	3:00 AM	46	0	0	0	1
33-053-01670	8	NORTH DAKOTA	MC KENZIE	Nor-Corp 29-01				6/20/2018	2:00 PM	6/23/2018	4:00 PM	24	0	0	0	1
33-053-06678	8	NORTH DAKOTA	MC KENZIE	Rink 12X-04C			Oil	9/20/2017	5:00 AM	9/24/2017	6:00 AM	92	65	0	27	1
33-053-06678	8	NORTH DAKOTA	MC KENZIE	Rink 12X-04C			Oil	12/20/2017	10:00 AM	12/21/2017	6:00 AM	21	17	0	3	265,292
33-053-06711	8	NORTH DAKOTA	MC KENZIE	Rink 12X-04D			Oil	8/21/2017	10:00 PM	10/12/2017	3:00 PM	861	42	0	812	1
33-053-06711	8	NORTH DAKOTA	MC KENZIE	Rink 12X-04D			Oil	1/4/2018	8:00 PM	1/9/2018	12:00 AM	101	97	0	3	366,019
33-053-06711	8	NORTH DAKOTA	MC KENZIE	Rink 12X-04D			Oil	4/30/2018	6:00 PM	6/12/2018	5:00 PM	779	615	0	134	1
33-053-06679	8	NORTH DAKOTA	MC KENZIE	Rink 12X-04H			Oil	12/28/2017	3:00 PM	1/4/2018	9:00 AM	163	0	0	163	329,383
33-053-06841	8	NORTH DAKOTA	MC KENZIE	Rita 44X-34HXE			Oil	8/23/2017	2:00 PM	8/25/2017	7:00 PM	40	0	0	26	1
33-053-06841	8	NORTH DAKOTA	MC KENZIE	Rita 44X-34HXE			Oil	9/27/2017	1:00 AM	10/2/2017	9:00 AM	129	0	0	128	1
33-053-06903	8	NORTH DAKOTA	MC KENZIE	Ryan 14X-09A			Oil	4/4/2018	5:00 AM	4/17/2018	5:00 PM	325	63	0	241	1
33-053-06903	8	NORTH DAKOTA	MC KENZIE	Ryan 14X-09A			Oil	5/16/2018	6:00 PM	5/27/2018	6:00 PM	263	238	0	2	1
33-053-06902	8	NORTH DAKOTA	MC KENZIE	Ryan 14X-09E			Oil	4/14/2018	4:00 AM	4/18/2018	11:00 AM	104	103	0	0	1
33-053-06902	8	NORTH DAKOTA	MC KENZIE	Ryan 14X-09E			Oil	6/10/2018	2:00 PM	6/11/2018	3:00 PM	20	0	0	0	1
33-053-06902	8	NORTH DAKOTA	MC KENZIE	Ryan 14X-09E			Oil	7/1/2018	5:00 PM	7/2/2018	11:00 PM	31	0	0	3	1

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NSPS 0000/0000a Well Completion.
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33-053-08180	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05A	(b) (9)	(b) (9)	Oil	6/25/2018	11:00 AM	6/27/2018	4:00 AM	42	0	0	37	1
33-053-08180	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05A			Oil	7/23/2018	5:00 PM	8/6/2018	6:00 AM	135	0	0	134	1
33-053-08178	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05B			Oil	7/1/2018	10:00 PM	7/3/2018	7:00 AM	34	0	0	33	519,168
33-053-08178	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05B			Oil	8/1/2018	5:00 PM	8/10/2018	8:00 AM	208	0	0	205	1
33-053-08179	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05E			Oil	6/22/2018	9:00 AM	6/24/2018	3:00 AM	43	0	0	38	1
33-053-08179	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05E			Oil	7/24/2018	6:00 PM	8/1/2018	1:00 PM	182	0	0	179	1
33-053-08181	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05EXH			Oil	6/27/2018	7:00 PM	6/29/2018	11:00 AM	41	0	0	36	22,298,696
33-053-08181	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05EXH			Oil	7/23/2018	6:00 PM	8/1/2018	9:00 AM	208	0	0	208	1
33-053-08177	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05F			Oil	6/30/2018	3:00 AM	7/1/2018	9:00 AM	31	0	0	26	483,193
33-053-08177	8	NORTH DAKOTA	MC KENZIE	Serrahn 11X-05F			Oil	7/19/2018	8:00 AM	7/23/2018	10:00 AM	98	0	0	96	1
33-053-03589	8	NORTH DAKOTA	MC KENZIE	Serrahn 41-06SWH			Oil	8/25/2018	6:00 PM	8/26/2018	3:00 PM	22	0	0	0	63,570
33-053-05627	8	NORTH DAKOTA	MC KENZIE	Serrahn 41X-06D			Oil	5/24/2018	7:00 PM	5/26/2018	5:00 PM	44	0	0	41	1
33-053-05628	8	NORTH DAKOTA	MC KENZIE	Serrahn 41X-06H			Oil	8/23/2018	11:00 AM	8/25/2018	6:00 AM	44	0	0	0	87,319
33-053-06539	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28C			Oil	4/14/2018	2:00 PM	4/15/2018	10:00 AM	20	0	0	13	190,784
33-053-06539	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28C			Oil	4/26/2018	2:00 PM	5/4/2018	12:00 PM	191	187	0	4	1
33-053-06541	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28CXD			Oil	9/4/2017	7:00 AM	9/6/2017	11:00 AM	53	0	0	53	1
33-053-06541	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28CXD			Oil	4/10/2018	5:00 PM	4/12/2018	1:00 AM	33	0	0	30	199,570
33-053-06541	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28CXD			Oil	4/26/2018	4:00 PM	4/29/2018	10:00 AM	67	12	0	0	1
33-053-06602	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28D			Oil	9/6/2017	2:00 PM	9/9/2017	6:00 AM	65	0	0	65	1
33-053-06540	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28G			Oil	1/3/2018	2:00 PM	1/3/2018	6:00 PM	5	0	0	0	1
33-053-06540	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28G			Oil	2/12/2018	6:00 PM	2/16/2018	6:00 AM	60	0	0	0	64,158
33-053-06540	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28G			Oil	4/12/2018	6:00 PM	4/13/2018	11:00 PM	29	0	0	19	72,412
33-053-06540	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28G			Oil	4/20/2018	12:00 PM	4/25/2018	10:00 AM	119	0	0	119	1
33-053-06542	8	NORTH DAKOTA	MC KENZIE	Stenehjem 31X-28H			Oil	8/11/2017	10:00 PM	8/15/2017	7:00 AM	82	0	0	82	1
33-053-03582	8	NORTH DAKOTA	MC KENZIE	Swenson 41-33SEH			Oil	8/30/2018	11:00 PM	8/31/2018	1:00 PM	15	0	0	0	58,600
33-053-06562	8	NORTH DAKOTA	MC KENZIE	Thompson 44X-20A			Oil	9/2/2018	12:00 PM	9/3/2018	7:00 AM	19	0	0	0	84,942
33-053-06560	8	NORTH DAKOTA	MC KENZIE	Thompson 44X-20B			Oil	5/20/2018	11:00 PM	5/22/2018	7:00 AM	33	0	0	0	89,259
33-053-02672	8	NORTH DAKOTA	MC KENZIE	Titan E Gierke 20-01H			Oil	11/28/2017	7:00 AM	11/29/2017	12:00 AM	18	0	0	11	1
33-053-02672	8	NORTH DAKOTA	MC KENZIE	Titan E Gierke 20-01H			Oil	12/2/2017	11:00 AM	12/22/2017	1:00 PM	483	0	0	0	1
33-053-06724	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32A			Oil	8/18/2017	2:00 PM	8/20/2017	1:00 PM	47	0	0	46	1
33-053-06726	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32AXB			Oil	8/22/2017	4:00 PM	9/2/2017	7:00 PM	96	0	0	96	1
33-053-06728	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32B			Oil	8/11/2017	7:00 AM	8/16/2017	6:00 AM	88	0	0	84	223,275
33-053-06728	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32B			Oil	8/28/2017	7:00 PM	8/31/2017	6:00 PM	72	0	0	71	1
33-053-06725	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32E			Oil	8/4/2017	7:00 AM	8/7/2017	2:00 AM	68	0	0	67	1
33-053-06725	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32E			Oil	8/20/2017	3:00 PM	9/4/2017	8:00 PM	95	0	0	94	1
33-053-06727	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32F			Oil	8/7/2017	4:00 PM	8/10/2017	6:00 PM	75	0	0	71	47,774
33-053-06727	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 24X-32F			Oil	8/24/2017	4:00 PM	8/27/2017	3:00 PM	72	0	0	72	1
33-053-07355	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 31X-29C			Oil	8/13/2017	2:00 PM	8/14/2017	3:00 PM	14	0	0	0	1
33-053-07355	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 31X-29C			Oil	8/27/2017	12:00 AM	8/28/2017	6:00 AM	31	0	0	21	1
33-053-07355	8	NORTH DAKOTA	MC KENZIE	Tobacco Garden 31X-29C			Oil	9/14/2017	9:00 PM	9/25/2017	8:00 AM	217	0	0	216	1
33-105-02163	8	NORTH DAKOTA	WILLIAMS	Ames 31X-13C			Oil	1/10/2018	3:00 AM	1/12/2018	4:00 PM	52	0	0	0	71,423
33-105-02163	8	NORTH DAKOTA	WILLIAMS	Ames 31X-13C			Oil	3/15/2018	5:00 AM	3/15/2018	8:00 AM	4	0	0	3	1
33-105-04126	8	NORTH DAKOTA	WILLIAMS	Ames Federal 31X-13B			Oil	8/9/2017	4:00 PM	8/15/2017	10:00 AM	124	0	0	124	1
33-105-04125	8	NORTH DAKOTA	WILLIAMS	Ames Federal 31X-13F			Oil	8/4/2017	4:00 PM	8/9/2017	9:00 AM	112	0	0	111	1
33-105-04123	8	NORTH DAKOTA	WILLIAMS	Ames Federal 31X-13FXG			Oil	7/1/2017	1:00 PM	8/3/2017	8:00 AM	9	0	0	9	1
33-105-04144	8	NORTH DAKOTA	WILLIAMS	Cheryl Federal 24X-12A			Oil	6/14/2017	5:00 PM	8/22/2017	12:00 PM	212	0	0	212	125,014
33-105-04091	8	NORTH DAKOTA	WILLIAMS	Cheryl Federal 24X-12AXB			Oil	6/23/2017	6:00 PM	8/9/2017	4:00 AM	129	0	0	129	135,222

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NSPS 0000/0000a Well Completion.
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33-105-04145	8	NORTH DAKOTA	WILLIAMS	Cheryl Federal 24X-12E	(b) (9)	(b) (9)	Oil	6/20/2017	7:00 PM	8/12/2017	12:00 PM	70	0	0	70	126,886
33-105-04145	8	NORTH DAKOTA	WILLIAMS	Cheryl Federal 24X-12E			Oil	3/15/2018	11:00 AM	3/17/2018	9:00 AM	47	28	0	18	1
33-105-01633	8	NORTH DAKOTA	WILLIAMS	Hazel 44X-22			Oil	9/29/2017	9:00 PM	10/6/2017	8:00 AM	156	2	0	152	1
33-105-01633	8	NORTH DAKOTA	WILLIAMS	Hazel 44X-22			Oil	7/6/2018	1:00 AM	7/12/2018	1:00 PM	77	0	0	0	1
33-105-04178	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15A			Oil	9/10/2017	7:00 PM	9/14/2017	3:00 AM	81	0	0	66	1
33-105-04178	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15A			Oil	11/6/2017	7:00 AM	12/6/2017	11:00 AM	721	228	0	493	1
33-105-04176	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15AXD			Oil	8/31/2017	2:00 AM	9/7/2017	4:00 AM	137	0	0	122	245,303
33-105-04176	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15AXD			Oil	11/6/2017	7:00 AM	12/5/2017	6:00 AM	694	229	0	465	1
33-105-04180	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15B			Oil	9/22/2017	9:00 AM	9/24/2017	1:00 PM	53	0	0	48	363,975
33-105-04180	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15B			Oil	10/31/2017	10:00 AM	11/21/2017	6:00 AM	143	40	0	102	1
33-105-04180	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15B			Oil	11/6/2017	7:00 AM	12/6/2017	11:00 AM	545	168	0	377	1
33-105-04179	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15E			Oil	9/14/2017	4:00 PM	9/21/2017	8:00 PM	96	0	0	93	1
33-105-04179	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15E			Oil	11/2/2017	2:00 PM	11/15/2017	6:00 AM	112	0	0	0	1
33-105-04179	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15E			Oil	12/18/2017	11:00 AM	12/22/2017	2:00 PM	100	52	0	24	1
33-105-04177	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15EXH			Oil	9/7/2017	4:00 PM	9/19/2017	8:00 PM	66	0	0	57	245,826
33-105-04177	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15EXH			Oil	11/3/2017	1:00 PM	11/6/2017	5:00 AM	63	61	0	0	1
33-105-04177	8	NORTH DAKOTA	WILLIAMS	JMB 14X-15EXH			Oil	11/6/2017	7:00 AM	11/24/2017	10:00 AM	436	167	0	269	1
33-105-01951	8	NORTH DAKOTA	WILLIAMS	Linda 41X-22			Oil	9/12/2017	4:00 PM	9/14/2017	9:00 AM	42	0	0	40	1
33-105-01951	8	NORTH DAKOTA	WILLIAMS	Linda 41X-22			Oil	9/19/2017	4:00 PM	9/25/2017	9:00 AM	138	137	0	1	1
33-105-04225	8	NORTH DAKOTA	WILLIAMS	Sonya 11X-18B			Oil	9/13/2018	1:00 PM	9/27/2018	8:00 AM	212	0	0	0	1

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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
RNPU 197-15A1

ID	Site Name	RNPU 197-15A1	Region 8
3085	State	COLORADO	Surveyor (b) (6)
	County	RIO BLANCO	Person Trained and Experienced Yes
	Survey Date	10/5/2017	Ambient Temperature 68 °F
	Start Time	2:00 PM	Sky Conditions Clear
	End Time	3:00 PM	Wind Speed 6 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	10/8/2017	OGI/FLIR
Connector	10/8/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
RNPU 197-15A1

ID	Site Name	RNPU 197-15A1	Region 8
8376	State	COLORADO	Surveyor (b) (6)
	County	RIO BLANCO	Person Trained and Experienced Yes
	Survey Date	4/23/2018	Ambient Temperature 43 °F
	Start Time	8:35 AM	Sky Conditions Clear
	End Time	9:25 AM	Wind Speed 1 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	4/23/2018	OGI/FLIR

OOOOb LDAR Surveys between 8/3/2017 and 10/14/2018
RNPU 197-15A1

ID	Site Name	Region 8
12699	RNPU 197-15A1	(b) (6)
	State COLORADO	Surveyor
	County RIO BLANCO	Person Trained and Experienced Yes
	Survey Date 10/6/2018	Ambient Temperature 33 °F
	Start Time 8:05 AM	Sky Conditions Overcast
	End Time 9:00 AM	Wind Speed 2 mph
	Deviations There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
BASARABA 44X-27

ID	Site Name	Region 8
1739	BASARABA 44X-27	(b) (6)
State NORTH DAKOTA		
County BILLINGS		
Survey Date 8/25/2017		
Start Time 8:15 AM		
End Time 9:00 AM		
Deviations There were no deviations from the monitoring plan		
Person Trained and Experienced Yes		
Ambient Temperature 64 °F		
Sky Conditions Cloudy		
Wind Speed 10 mph		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	1	0	1
Open-ended Line	1	1	0	1
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Gasket	7/19/2018	OGI/FLIR
Open-ended Line	12/1/2017	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
BASARABA 44X-27

ID	Site Name	BASARABA 44X-27	Region 8
5903	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	2/5/2018	Ambient Temperature 2 °F
	Start Time	11:00 AM	Sky Conditions Clear
	End Time	11:40 AM	Wind Speed 14 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 BASARABA 44X-27

ID	Site Name	BASARABA 44X-27		Region 8
11973	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	BILLINGS	Person Trained and Experienced	Yes
	Survey Date	8/2/2018	Ambient Temperature	82 °F
	Start Time	11:53 AM	Sky Conditions	Clear
	End Time	12:27 PM	Wind Speed	14 mph

Leaking Components					
	Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
	Fitting	0	0	0	0
	Flange	0	0	0	0
	Gasket	0	0	0	0
	PRV	0	0	0	0
	Thief Hatch	0	0	0	0
	Valve	0	0	0	0

Repairs			
	Component	Repair Date	Resurvey Method

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 CHRUSZCH 11X-20

ID	Site Name	CHRUSZCH 11X-20	Region 8
1892	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	8/28/2017	Ambient Temperature 68 °F
	Start Time	8:55 AM	Sky Conditions Clear
	End Time	10:10 AM	Wind Speed 2 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	2	0	2
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	11/17/2017	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 CHRUSZCH 11X-20

ID	Site Name	CHRUSZCH 11X-20	Region	8
5906	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	BILLINGS	Person Trained and Experienced	Yes
	Survey Date	2/6/2018	Ambient Temperature	1 °F
	Start Time	7:30 AM	Sky Conditions	Clear
	End Time	8:30 AM	Wind Speed	4 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	3	3	0	3
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

JILEK 44X-33

ID	Site Name	JILEK 44X-33	Region 8
1893	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	8/25/2017	Ambient Temperature 64 °F
	Start Time	9:00 AM	Sky Conditions Cloudy
	End Time	9:47 AM	Wind Speed 10 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Open-ended Line	1	1	0	1
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/26/2017	OGI/FLIR
Open-ended Line	12/1/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
JILEK 44X-33

ID	Site Name	JILEK 44X-33	Region 8
8214	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	2/5/2018	Ambient Temperature 1 °F
	Start Time	10:20 AM	Sky Conditions Clear
	End Time	11:00 AM	Wind Speed 14 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	2/19/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
LOGOSZ 44X-22

ID	Site Name	LOGOSZ 44X-22	Region 8
1894	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	8/28/2017	Ambient Temperature 56 °F
	Start Time	7:09 AM	Sky Conditions Clear
	End Time	7:58 AM	Wind Speed 2 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	11/17/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
LOGOSZ 44X-22

ID	Site Name	LOGOSZ 44X-22	Region 8
5915	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	2/6/2018	Ambient Temperature 2 °F
	Start Time	9:10 AM	Sky Conditions Clear
	End Time	10:00 AM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
LOGOSZ 44X-22

ID	Site Name	LOGOSZ 44X-22	Region 8
11986	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	8/2/2018	Ambient Temperature 80 °F
	Start Time	10:58 AM	Sky Conditions Clear
	End Time	11:19 AM	Wind Speed 13 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
PALUCK 41X-28

ID	Site Name	Region
1891	PALUCK 41X-28	8
State	NORTH DAKOTA	Surveyor (b) (6)
County	BILLINGS	Person Trained and Experienced Yes
Survey Date	8/28/2017	Ambient Temperature 62 °F
Start Time	8:04 AM	Sky Conditions Clear
End Time	8:45 AM	Wind Speed 1 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
PALUCK 41X-28

ID	Site Name	PALUCK 41X-28	Region 8
5912	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	2/6/2018	Ambient Temperature 2 °F
	Start Time	8:30 AM	Sky Conditions Clear
	End Time	9:05 AM	Wind Speed 4 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/20/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
PALUCK 41X-28

ID	Site Name	PALUCK 41X-28	Region 8
12653	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	10/4/2018	Ambient Temperature 23 °F
	Start Time	7:03 AM	Sky Conditions Clear
	End Time	7:26 AM	Wind Speed 7 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
STATE LOGOSZ 44X-16

ID	Site Name	STATE LOGOSZ 44X-16	Region 8
1738	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	8/25/2017	Ambient Temperature 66 °F
	Start Time	9:45 AM	Sky Conditions Cloudy
	End Time	10:15 AM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
STATE LOGOSZ 44X-16

ID	Site Name	STATE LOGOSZ 44X-16	Region 8
5901	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	2/7/2018	Ambient Temperature 11 °F
	Start Time	8:30 AM	Sky Conditions Cloudy
	End Time	9:10 AM	Wind Speed 6 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	2/7/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
STATE LOGOSZ 44X-16

ID	Site Name	STATE LOGOSZ 44X-16	Region 8
11990	State	NORTH DAKOTA	Surveyor (b) (6)
	County	BILLINGS	Person Trained and Experienced Yes
	Survey Date	8/2/2018	Ambient Temperature 74 °F
	Start Time	9:56 AM	Sky Conditions Clear
	End Time	10:12 AM	Wind Speed 16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Bang 31X-29 Pad Facility

ID	Site Name	Region 8
1598	Bang 31X-29 Pad Facility	(b) (6)
State	NORTH DAKOTA	Surveyor
County	DUNN	Person Trained and Experienced
Survey Date	8/18/2017	Ambient Temperature
Start Time	9:24 AM	Sky Conditions
End Time	10:16 AM	Wind Speed
Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/28/2017	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Bang 31X-29 Pad Facility

ID	Site Name	Region 8
5780	Bang 31X-29 Pad Facility	(b) (6)
	State NORTH DAKOTA	Surveyor
	County DUNN	Person Trained and Experienced Yes
	Survey Date 1/25/2018	Ambient Temperature 31 °F
	Start Time 11:30 AM	Sky Conditions Cloudy
	End Time 12:30 PM	Wind Speed 9 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	12	10	0	10
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	1/25/2018	OGI/FLIR
Thief Hatch	1/25/2018	OGI/FLIR
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Bang 31X-29 Pad Facility

ID	Site Name	Region
12365	Bang 31X-29 Pad Facility	Region 8
	State NORTH DAKOTA	Surveyor (b) (6)
	County DUNN	Person Trained and Experienced Yes
	Survey Date 8/2/2018	Ambient Temperature 58 °F
	Start Time 2:00 PM	Sky Conditions Cloudy
	End Time 2:30 PM	Wind Speed 16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/4/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Bang/George Federal 21X-19 Pad Facility

ID	Site Name	Bang/George Federal 21X-19 Pad Facility	Region 8
13117	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	10/12/2018	Ambient Temperature 43 °F
	Start Time	10:41 AM	Sky Conditions Clear
	End Time	11:44 AM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	10/16/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Bear Creek 31X-03 Pad Facility

ID	Site Name	Bear Creek 31X-03 Pad Facility		Region 8
8368	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	DUNN	Person Trained and Experienced	Yes
	Survey Date	3/16/2018	Ambient Temperature	18 °F
	Start Time	8:00 AM	Sky Conditions	Clear
	End Time	8:30 AM	Wind Speed	10 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	3/16/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Beckert #24- 7H

ID	Site Name	Beckert #24- 7H	Region 8
1644	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/23/2017	Ambient Temperature 77 °F
	Start Time	11:21 AM	Sky Conditions Clear
	End Time	12:19 PM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/30/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Beckert #24- 7H

ID	Site Name	Beckert #24- 7H	Region 8
5904	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/1/2018	Ambient Temperature 3 °F
	Start Time	9:30 AM	Sky Conditions Clear
	End Time	10:30 AM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Beckert #24- 7H

ID	Site Name	Beckert #24- 7H	Region 8
11978	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/1/2018	Ambient Temperature 68 °F
	Start Time	1:00 PM	Sky Conditions Cloudy
	End Time	1:21 PM	Wind Speed 7 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Big Gulch Federal/Dakota Federal 41X-16 CTB

ID	Site Name	Big Gulch Federal/Dakota Federal 41X-16 CTB	Region 8
2134	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/8/2017	Ambient Temperature 72 °F
	Start Time	10:06 AM	Sky Conditions Clear
	End Time	12:21 PM	Wind Speed 17 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/25/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Big Gulch Federal/Dakota Federal 41X-16 CTB

ID	Site Name	Big Gulch Federal/Dakota Federal 41X-16 CTB	Region 8
6686	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/21/2018	Ambient Temperature -6 °F
	Start Time	9:40 AM	Sky Conditions Clear
	End Time	12:30 PM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	16	16	0	16
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	2/28/2018	OGI/FLIR
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/14/2018	OGI
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Deep Creek/Jorgenson 43X-05 CTB

ID	Site Name	Region 8
3706	Deep Creek/Jorgenson 43X-05 CTB	(b) (6)
State	NORTH DAKOTA	Surveyor
County	DUNN	Person Trained and Experienced
Survey Date	10/4/2017	Ambient Temperature
Start Time	8:00 AM	Sky Conditions
End Time	10:00 AM	Wind Speed

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	10/16/2017	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Deep Creek/Jorgenson 43X-05 CTB

ID	Site Name	Deep Creek/Jorgenson 43X-05 CTB	Region 8
5980	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/15/2018	Ambient Temperature 0 °F
	Start Time	2:10 PM	Sky Conditions Cloudy
	End Time	3:15 PM	Wind Speed 16 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	6	6	0	6
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	3/14/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 Deep Creek/Jorgenson 43X-05 CTB

ID	Site Name	Deep Creek/Jorgenson 43X-05 CTB	Region 8
12693	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/23/2018	Ambient Temperature 48 °F
	Start Time	12:15 PM	Sky Conditions Cloudy
	End Time	2:15 PM	Wind Speed 6 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Cover	1	0	0	0
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	9/26/2018	OGI/FLIR
Connector	10/12/2018	OGI/FLIR
Cover	9/26/2018	OGI/FLIR
Fitting	9/26/2018	OGI/FLIR
PRV	10/12/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Baker/Walker 34X-25 Pad Facility

ID	Site Name	FBIR Baker/Walker 34X-25 Pad Facility	Region 8
5060	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/2/2018	Ambient Temperature 14 °F
	Start Time	10:45 AM	Sky Conditions Clear
	End Time	11:45 AM	Wind Speed 9.7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	22	7	0	7
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	1/4/2018	OGI/FLIR
Connector	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	6/1/2018	OGI/FLIR
Thief Hatch	6/1/2018	OGI/FLIR
Thief Hatch	6/1/2018	OGI/FLIR
Thief Hatch	6/1/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
FBIR Baker/Walker 34X-25 Pad Facility

5060	Thief Hatch	6/1/2018	OGI/FLIR	
	Thief Hatch	6/1/2018	OGI/FLIR	
	Thief Hatch	6/1/2018	OGI/FLIR	

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Baker/Walker 34X-25 Pad Facility

ID	Site Name	FBIR Baker/Walker 34X-25 Pad Facility	Region 8
12087	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/29/2018	Ambient Temperature 77 °F
	Start Time	2:39 PM	Sky Conditions Cloudy
	End Time	3:18 PM	Wind Speed 11 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/30/2018	OGI/FLIR
Valve	8/30/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

FBIR BlackMedicine 24X-21 CTB

ID	Site Name	Region
4833	FBIR BlackMedicine 24X-21 CTB	8
	State NORTH DAKOTA	Surveyor (b) (6)
	County DUNN	Person Trained and Experienced Yes
	Survey Date 9/28/2017	Ambient Temperature 62 °F
	Start Time 11:50 AM	Sky Conditions Clear
	End Time 3:05 PM	Wind Speed 10 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	23	3	0	3
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	10/6/2017	OGI/FLIR
Connector	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR
Gasket	10/6/2017	OGI/FLIR

OOO0a LDAR Surveys between 8/3/2017 and 10/14/2018

FBIR BlackMedicine 24X-21 CTB

4833

Gasket	10/6/2017	OGI/FLIR	
Gasket	11/30/2017	OGI/FLIR	
Gasket	11/30/2017	OGI/FLIR	
Gasket	11/30/2017	OGI/FLIR	

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR BlackMedicine 24X-21 CTB

ID	Site Name	Region 8
5781	FBIR BlackMedicine 24X-21 CTB	(b) (6)
State	NORTH DAKOTA	Surveyor
County	DUNN	Person Trained and Experienced
Survey Date	1/26/2018	Ambient Temperature
Start Time	11:00 AM	Sky Conditions
End Time	12:30 PM	Wind Speed

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	20	20	0	20
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	1/16/2018	OGI/FLIR
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
FBIR BlackMedicine 24X-21 CTB

5781



OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR BlackMedicine 24X-21 CTB

ID	Site Name	Region 8
12319	FBIR BlackMedicine 24X-21 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County DUNN	Person Trained and Experienced Yes
	Survey Date 9/21/2018	Ambient Temperature 40 °F
	Start Time 8:37 AM	Sky Conditions Overcast
	End Time 9:18 AM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR BlackMedicine 24X-21 CTB

ID	Site Name	FBIR BlackMedicine 24X-21 CTB	Region 8
13243	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	10/9/2018	Ambient Temperature 34 °F
	Start Time	9:34 AM	Sky Conditions Overcast
	End Time	10:40 AM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	10/12/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Grinnell 34X-33 CTB

ID	Site Name	FBIR Grinnell 34X-33 CTB	Region 8
5787	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/8/2018	Ambient Temperature 29 °F
	Start Time	12:00 PM	Sky Conditions Cloudy
	End Time	1:30 PM	Wind Speed 4 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	40	20	0	20
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	1/8/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR
Thief Hatch	1/19/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
FBIR Grinnell 34X-33 CTB

5787

Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/30/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Grinnell 34X-33 CTB

ID	Site Name	FBIR Grinnell 34X-33 CTB	Region 8
12154	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/30/2018	Ambient Temperature 76 °F
	Start Time	11:29 AM	Sky Conditions Clear
	End Time	12:10 PM	Wind Speed 13 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	5	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Flange	8/31/2018	OGI/FLIR
Flange	8/31/2018	OGI/FLIR
Flange	8/31/2018	OGI/FLIR
Flange	8/31/2018	OGI/FLIR
Flange	8/31/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

FBIR Grinnell 34X-33 CTB

ID	Site Name	FBIR Grinnell 34X-33 CTB	Region 8
12321	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/24/2018	Ambient Temperature 46 °F
	Start Time	8:49 AM	Sky Conditions Overcast
	End Time	9:28 AM	Wind Speed 1 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	9/24/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Grinnell 34X-33 CTB

ID	Site Name	Region 8
13245	FBIR Grinnell 34X-33 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County DUNN	Person Trained and Experienced Yes
	Survey Date 10/11/2018	Ambient Temperature 39 °F
	Start Time 1:33 PM	Sky Conditions Cloudy
	End Time 2:00 PM	Wind Speed 9 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	10/11/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR IronWoman/YellowWolf 21X-10 Pad Facility

ID	Site Name	FBIR IronWoman/YellowWolf 21X-10 Pad Facility	Region 8
1589	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/14/2017	Ambient Temperature 74 °F
	Start Time	12:07 PM	Sky Conditions Clear
	End Time	2:15 PM	Wind Speed 17 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	2	0	0	0
PRV	1	1	0	1
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Gasket	8/14/2017	OGI/FLIR
Gasket	8/22/2017	OGI/FLIR
PRV	11/6/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR IronWoman/YellowWolf 21X-10 Pad Facility

ID	Site Name	Region 8
5637	FBIR IronWoman/YellowWolf 21X-10 Pad Facility	
State	NORTH DAKOTA	Surveyor (b) (6)
County	DUNN	Person Trained and Experienced Yes
Survey Date	1/4/2018	Ambient Temperature 11 °F
Start Time	8:30 AM	Sky Conditions Cloudy
End Time	9:30 AM	Wind Speed 3 mph
Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	10	5	0	5
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR
Thief Hatch	1/4/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Reese 43X-33 CTB

ID	Site Name	FBIR Reese 43X-33 CTB	Region 8
5660	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/9/2018	Ambient Temperature 29 °F
	Start Time	9:30 AM	Sky Conditions Clear
	End Time	11:20 AM	Wind Speed 6 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	11	11	0	11
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	1/9/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR
Thief Hatch	6/10/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Reese 43X-33 CTB

ID	Site Name	Region 8
12099	FBIR Reese 43X-33 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County DUNN	Person Trained and Experienced Yes
	Survey Date 8/30/2018	Ambient Temperature 71 °F
	Start Time 9:07 AM	Sky Conditions Clear
	End Time 10:11 AM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	3	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/31/2018	OGI/FLIR
Thief Hatch	8/31/2018	OGI/FLIR
Thief Hatch	8/31/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

FBIR Reese 43X-33 CTB

ID	Site Name	FBIR Reese 43X-33 CTB	Region 8
12339	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/21/2018	Ambient Temperature 44 °F
	Start Time	9:55 AM	Sky Conditions Overcast
	End Time	10:54 AM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	9/21/2018	OGI/FLIR
Thief Hatch	9/21/2018	OGI/FLIR
Thief Hatch	9/21/2018	OGI/FLIR
Thief Hatch	9/21/2018	OGI/FLIR
Thief Hatch	9/21/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 FBIR Reese 43X-33 CTB

ID	Site Name	FBIR Reese 43X-33 CTB	Region 8
13244	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	10/9/2018	Ambient Temperature 34 °F
	Start Time	11:41 AM	Sky Conditions Overcast
	End Time	1:12 PM	Wind Speed 7 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	10/9/2018	OGI/FLIR
Thief Hatch	10/11/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 24X-19 Pad Facility

ID	Site Name	Franchuk 24X-19 Pad Facility	Region 8
1642	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/22/2017	Ambient Temperature 73 °F
	Start Time	1:15 PM	Sky Conditions Clear
	End Time	2:15 PM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/25/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 24X-19 Pad Facility

ID	Site Name	Franchuk 24X-19 Pad Facility	Region 8
5907	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/29/2018	Ambient Temperature 20 °F
	Start Time	12:00 PM	Sky Conditions Cloudy
	End Time	1:00 PM	Wind Speed 11 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	23	16	0	16
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	2/2/2018	OGI/FLIR
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Franchuk 24X-19 Pad Facility

5907

Thief Hatch

7/25/2018

OGI/FLIR

Thief Hatch

7/25/2018

OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 24X-19 Pad Facility

ID	Site Name	Franchuk 24X-19 Pad Facility	Region 8
12654	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	10/4/2018	Ambient Temperature 27 °F
	Start Time	8:14 AM	Sky Conditions Clear
	End Time	9:09 AM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Franchuk 24X-20 Pad Facility

ID	Site Name	Franchuk 24X-20 Pad Facility	Region 8
1339	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/8/2017	Ambient Temperature 59 °F
	Start Time	7:44 AM	Sky Conditions Clear
	End Time	9:00 AM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	1	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Flange	8/28/2017	OGI/FLIR
Thief Hatch	8/28/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 24X-20 Pad Facility

ID	Site Name	Franchuk 24X-20 Pad Facility	Region 8
5783	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/29/2018	Ambient Temperature 25 °F
	Start Time	1:00 PM	Sky Conditions Cloudy
	End Time	2:00 PM	Wind Speed 10 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	5	5	0	5
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/18/2018	OGI
Thief Hatch	7/18/2018	OGI
Thief Hatch	7/18/2018	OGI
Thief Hatch	7/18/2018	OGI
Thief Hatch	7/25/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 24X-20 Pad Facility

ID	Site Name	Franchuk 24X-20 Pad Facility	Region 8
12549	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/2/2018	Ambient Temperature 90 °F
	Start Time	12:29 PM	Sky Conditions Clear
	End Time	1:00 PM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/3/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 34-19 Pad Facility

ID	Site Name	Franchuk 34-19 Pad Facility	Region 8
1599	State NORTH DAKOTA	Surveyor (b) (6)	
	County DUNN	Person Trained and Experienced	Yes
	Survey Date 8/18/2017	Ambient Temperature	75 °F
	Start Time 10:26 AM	Sky Conditions	Clear
	End Time 11:35 AM	Wind Speed	7 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/25/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Franchuk 34-19 Pad Facility

ID	Site Name	Franchuk 34-19 Pad Facility	Region 8
5784	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/25/2018	Ambient Temperature 31 °F
	Start Time	12:30 PM	Sky Conditions Cloudy
	End Time	1:30 PM	Wind Speed 9 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	10	10	0	10
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/25/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 34-19 Pad Facility

ID	Site Name	Franchuk 34-19 Pad Facility	Region 8
12371	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/2/2018	Ambient Temperature 90 °F
	Start Time	2:10 PM	Sky Conditions Clear
	End Time	2:47 PM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	1	0	1
Thief Hatch	2	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/3/2018	OGI/FLIR
Thief Hatch	8/3/2018	OGI/FLIR
Thief Hatch	8/3/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 44-20 Pad Facility

ID	Site Name	Franchuk 44-20 Pad Facility	Region 8
1600	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/18/2017	Ambient Temperature 59 °F
	Start Time	7:08 AM	Sky Conditions Overcast
	End Time	8:38 AM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 44-20 Pad Facility

ID	Site Name	Franchuk 44-20 Pad Facility	Region 8
5785	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/29/2018	Ambient Temperature 25 °F
	Start Time	2:00 PM	Sky Conditions Cloudy
	End Time	3:00 PM	Wind Speed 11 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	10	10	0	10
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Franchuk 44-20 Pad Facility

ID	Site Name	Franchuk 44-20 Pad Facility	Region 8
12040	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/2/2018	Ambient Temperature 58 °F
	Start Time	8:47 AM	Sky Conditions Clear
	End Time	9:15 AM	Wind Speed 16 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 43-27 Pad Facility

ID	Site Name	Johnson 43-27 Pad Facility	Region 8
1605	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/21/2017	Ambient Temperature 68 °F
	Start Time	9:33 AM	Sky Conditions Clear
	End Time	11:46 AM	Wind Speed 18 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Open-ended Line	1	1	0	1
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Open-ended Line	11/15/2017	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 43-27 Pad Facility

ID	Site Name	Johnson 43-27 Pad Facility	Region 8
5911	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/1/2018	Ambient Temperature 6 °F
	Start Time	1:30 PM	Sky Conditions Clear
	End Time	3:00 PM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Open-ended Line	1	0	0	0
PRV	0	0	0	0
Thief Hatch	2	2	0	2
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Open-ended Line	2/1/2018	OGI/FLIR
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 43-27 Pad Facility

ID	Site Name	Johnson 43-27 Pad Facility	Region 8
12370	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/1/2018	Ambient Temperature 69 °F
	Start Time	1:16 PM	Sky Conditions Cloudy
	End Time	2:18 PM	Wind Speed 7 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Opening/Hole	2	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Opening/Hole	8/2/2018	OGI/FLIR
Opening/Hole	8/2/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Johnson 43X-27 CTB

ID	Site Name	Region 8
2087	Johnson 43X-27 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County DUNN	Person Trained and Experienced Yes
	Survey Date 8/21/2017	Ambient Temperature 68 °F
	Start Time 12:52 PM	Sky Conditions Clear
	End Time 2:03 PM	Wind Speed 19 mph
	Deviations There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/20/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 43X-27 CTB

ID	Site Name	Johnson 43X-27 CTB	Region 8
5937	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/1/2018	Ambient Temperature 2 °F
	Start Time	11:00 AM	Sky Conditions Clear
	End Time	12:00 PM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	29	20	0	20
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	2/9/2018	OGI/FLIR
Thief Hatch	2/1/2018	OGI/FLIR
Thief Hatch	2/1/2018	OGI/FLIR
Thief Hatch	2/1/2018	OGI/FLIR
Thief Hatch	2/1/2018	OGI/FLIR
Thief Hatch	2/1/2018	OGI/FLIR
Thief Hatch	2/9/2018	OGI/FLIR
Thief Hatch	2/9/2018	OGI/FLIR
Thief Hatch	2/9/2018	OGI/FLIR
Thief Hatch	2/9/2018	OGI/FLIR
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 43X-27 CTB

5937

Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		
Thief Hatch	7/20/2018	OGI		

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 43X-27 CTB

ID	Site Name	Johnson 43X-27 CTB	Region 8
11983	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/1/2018	Ambient Temperature 68 °F
	Start Time	11:45 AM	Sky Conditions Overcast
	End Time	12:22 PM	Wind Speed 6 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Kaye Federal 13X-03 Pad Facility

ID	Site Name	Kaye Federal 13X-03 Pad Facility	Region 8
1327	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/4/2017	Ambient Temperature 80 °F
	Start Time	12:00 AM	Sky Conditions Clear
	End Time	12:00 AM	Wind Speed 10 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/11/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Kaye Federal 13X-03 Pad Facility

ID	Site Name	Region 8
6125	Kaye Federal 13X-03 Pad Facility	(b) (6)
State	NORTH DAKOTA	Surveyor
County	DUNN	Person Trained and Experienced
Survey Date	2/16/2018	Yes
Start Time	1:00 PM	Ambient Temperature
End Time	3:00 PM	17 °F
		Sky Conditions
		Clear
		Wind Speed
		16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	5	0	0	0
Thief Hatch	5	5	0	5
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/5/2018	OGI/FLIR
PRV	3/12/2018	OGI/FLIR
PRV	3/12/2018	OGI/FLIR
PRV	3/12/2018	OGI/FLIR
PRV	3/12/2018	OGI/FLIR
PRV	3/12/2018	OGI/FLIR
Thief Hatch	7/11/2018	OGI
Thief Hatch	7/11/2018	OGI
Thief Hatch	7/11/2018	OGI
Thief Hatch	7/11/2018	OGI
Thief Hatch	7/11/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Kulish #24- 2H

ID	Site Name	Kulish #24- 2H	Region 8
1643	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/23/2017	Ambient Temperature 84 °F
	Start Time	1:07 PM	Sky Conditions Clear
	End Time	1:49 PM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	11/21/2017	OGI/FLIR
Thief Hatch	11/22/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Kulish #24- 2H

ID	Site Name	Kulish #24- 2H	Region 8
5898	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/31/2018	Ambient Temperature 26 °F
	Start Time	8:20 AM	Sky Conditions Cloudy
	End Time	9:00 AM	Wind Speed 15 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Kulish #24- 2H

ID	Site Name	Kulish #24- 2H	Region 8
12044	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/1/2018	Ambient Temperature 59 °F
	Start Time	11:30 AM	Sky Conditions Overcast
	End Time	12:00 PM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Kulish 14-02 SWD

ID	Site Name	Kulish 14-02 SWD	Region 8
2133	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/11/2017	Ambient Temperature 64 °F
	Start Time	9:15 AM	Sky Conditions Cloudy
	End Time	9:45 AM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Open-ended Line	1	1	0	1
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	10/16/2017	OGI/FLIR
Open-ended Line	10/16/2017	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Little Pete Federal 41X-03 Pad Facility

ID	Site Name	Little Pete Federal 41X-03 Pad Facility	Region 8
2656	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/14/2017	Ambient Temperature 59 °F
	Start Time	10:00 AM	Sky Conditions Overcast
	End Time	11:15 AM	Wind Speed 5 mph
	Deviations	<div>Wellhead HXE2 not active and east quad pack not being used at time of survey and were not inspected. </div>	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	9/19/2017	OGI/FLIR
Thief Hatch	7/26/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 Little Pete Federal 41X-03 Pad Facility

ID	Site Name	Little Pete Federal 41X-03 Pad Facility	Region 8
2657	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/19/2017	Ambient Temperature 57 °F
	Start Time	11:32 AM	Sky Conditions Overcast
	End Time	12:30 PM	Wind Speed 12 mph
	Deviations	<div>Wellhead HXE2 down - no survey completed. </div> <div>#160;</div> <div>Only East HT surveyed - is was down during initial survey on 09/14/2017</div>	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Little Pete Federal 41X-03 Pad Facility

ID	Site Name	Little Pete Federal 41X-03 Pad Facility	Region 8
3762	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	10/3/2017	Ambient Temperature 37 °F
	Start Time	9:28 AM	Sky Conditions Cloudy
	End Time	12:00 PM	Wind Speed 24 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	1	1	0	1
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	10/13/2017	OGI/FLIR
Thief Hatch	7/26/2018	OGI
Valve	10/13/2017	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 Little Pete Federal 41X-03 Pad Facility

ID	Site Name	Little Pete Federal 41X-03 Pad Facility	Region 8
8370	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	3/6/2018	Ambient Temperature 16 °F
	Start Time	10:45 AM	Sky Conditions Cloudy
	End Time	11:20 AM	Wind Speed 16 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	7	7	0	7
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	3/6/2018	OGI/FLIR
Thief Hatch	7/22/2018	OGI
Thief Hatch	7/22/2018	OGI
Thief Hatch	7/22/2018	OGI
Thief Hatch	7/22/2018	OGI
Thief Hatch	7/22/2018	OGI
Thief Hatch	7/22/2018	OGI
Thief Hatch	7/22/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Pelton 02-01 SWD

ID	Site Name	Region
1463	Pelton 02-01 SWD	(b) (6)
State	NORTH DAKOTA	Surveyor
County	DUNN	Person Trained and Experienced
Survey Date	8/14/2017	Yes
Start Time	10:06 AM	Ambient Temperature
End Time	10:44 AM	66 °F
		Sky Conditions
		Cloudy
		Wind Speed
		15 mph
Deviations There were no deviations from the monitoring plan		
Leaking Components		
Type	Count	Not Repaired as Required
Fitting	0	0
Flange	0	0
Gasket	0	0
PRV	0	0
Thief Hatch	0	0
Valve	0	0
		Difficult or Unsafe to Monitor
		0
		Placed on Delay of Repair
		0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Rogne #44-34H

ID	Site Name	Rogne #44-34H	Region 8
1603	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/21/2017	Ambient Temperature 55 °F
	Start Time	7:03 AM	Sky Conditions Clear
	End Time	8:09 AM	Wind Speed 10 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Opening/Hole	1	1	0	1
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Opening/Hole	11/22/2017	OGI/FLIR
Thief Hatch	7/19/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Rogne #44-34H

ID	Site Name	Rogne #44-34H	Region 8
5917	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/8/2018	Ambient Temperature 5 °F
	Start Time	10:30 AM	Sky Conditions Cloudy
	End Time	11:10 AM	Wind Speed 5 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Rogne #44-34H

ID	Site Name	Rogne #44-34H	Region 8
12008	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/1/2018	Ambient Temperature 67 °F
	Start Time	11:08 AM	Sky Conditions Overcast
	End Time	11:33 AM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	8/14/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Rogne 11-35H

ID	Site Name	Rogne 11-35H		Region 8
1604	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	DUNN	Person Trained and Experienced	Yes
	Survey Date	8/21/2017	Ambient Temperature	63 °F
	Start Time	8:18 AM	Sky Conditions	Clear
	End Time	9:20 AM	Wind Speed	17 mph
	Deviations	There were no deviations from the monitoring plan		
Leaking Components				
	Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor
	Fitting	0	0	0
	Flange	0	0	0
	Gasket	0	0	0
	PRV	0	0	0
	Thief Hatch	0	0	0
	Valve	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Rogne 11-35H

ID	Site Name	Rogne 11-35H	Region 8
5916	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/2/2018	Ambient Temperature 8 °F
	Start Time	8:30 AM	Sky Conditions Cloudy
	End Time	9:10 AM	Wind Speed 2 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Rogne 11-35H

ID	Site Name	Rogne 11-35H	Region 8
12364	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/1/2018	Ambient Temperature 62 °F
	Start Time	12:45 PM	Sky Conditions Cloudy
	End Time	1:07 PM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Open-ended Line	1	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Open-ended Line	8/2/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Sadowsky #44- 1H

ID	Site Name	Sadowsky #44- 1H	Region 8
1645	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/23/2017	Ambient Temperature 84 °F
	Start Time	1:57 PM	Sky Conditions Clear
	End Time	2:48 PM	Wind Speed 5 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Sadowsky #44- 1H

ID	Site Name	Sadowsky #44- 1H	Region 8
5899	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	1/31/2018	Ambient Temperature 26 °F
	Start Time	9:00 AM	Sky Conditions Cloudy
	End Time	9:30 AM	Wind Speed 16 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Sadowsky #44- 1H

ID	Site Name	Region
11988	Sadowsky #44- 1H	8
	State NORTH DAKOTA	Surveyor Jessy Renner
	County DUNN	Person Trained and Experienced Yes
	Survey Date 9/4/2018	Ambient Temperature 62 °F
	Start Time 11:32 AM	Sky Conditions Clear
	End Time 12:12 PM	Wind Speed 16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Schettler 14X-09 CTB

ID	Site Name	Schettler 14X-09 CTB	Region 8
1461	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/14/2017	Ambient Temperature 77 °F
	Start Time	10:59 AM	Sky Conditions Cloudy
	End Time	1:15 PM	Wind Speed 15 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	10/16/2017	OGI/FLIR
Thief Hatch	7/24/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Schettler 14X-09 CTB

ID	Site Name	Schettler 14X-09 CTB	Region 8
8399	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	4/24/2018	Ambient Temperature 46 °F
	Start Time	9:44 AM	Sky Conditions Clear
	End Time	12:15 PM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	1	0	0	0
Gasket	0	0	0	0
PRV	4	0	0	0
Thief Hatch	36	36	0	36
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	4/26/2018	OGI/FLIR
Flange	4/24/2018	OGI/FLIR
PRV	5/10/2018	OGI/FLIR
PRV	5/10/2018	OGI/FLIR
PRV	5/10/2018	OGI/FLIR
PRV	5/10/2018	OGI/FLIR
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Schettler 14X-09 CTB

8399

Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/20/2018	OGI
Thief Hatch	7/24/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Schettler 14X-09 CTB

ID	Site Name	Schettler 14X-09 CTB	Region 8
11989	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/10/2018	Ambient Temperature 72 °F
	Start Time	10:02 AM	Sky Conditions Clear
	End Time	11:04 AM	Wind Speed 9 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018

TAT State Federal 14X-36 Pad Facility

ID	Site Name	TAT State Federal 14X-36 Pad Facility	Region 8
5968	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/15/2018	Ambient Temperature 2 °F
	Start Time	1:00 PM	Sky Conditions Cloudy
	End Time	2:10 PM	Wind Speed 16 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	11	11	0	11
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	2/15/2018	OGI/FLIR
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/23/2018	OGI
Thief Hatch	7/27/2018	OGI/FLIR
Thief Hatch	7/27/2018	OGI/FLIR
Thief Hatch	7/27/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
TAT State Federal 14X-36 Pad Facility

ID	Site Name	TAT State Federal 14X-36 Pad Facility	Region 8
12010	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/12/2018	Ambient Temperature 62 °F
	Start Time	11:41 AM	Sky Conditions Clear
	End Time	12:42 PM	Wind Speed 16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Thorp Federal 11X-28 CTB

ID	Site Name	Thorp Federal 11X-28 CTB	Region 8
1929	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/6/2017	Ambient Temperature 75 °F
	Start Time	10:26 AM	Sky Conditions Clear
	End Time	1:27 PM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/11/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Thorp Federal 11X-28 CTB

ID	Site Name	Thorp Federal 11X-28 CTB	Region 8
5975	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced
			Yes
	Survey Date	2/20/2018	Ambient Temperature
			6 °F
	Start Time	2:20 PM	Sky Conditions
			Clear
	End Time	3:30 PM	Wind Speed
			13 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	6	6	0	6
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/6/2018	OGI
Thief Hatch	7/6/2018	OGI
Thief Hatch	7/6/2018	OGI
Thief Hatch	7/6/2018	OGI
Thief Hatch	7/6/2018	OGI
Thief Hatch	7/11/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Thorp Federal 11X-28 CTB

ID	Site Name	Thorp Federal 11X-28 CTB	Region 8
10682	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/7/2018	Ambient Temperature 80 °F
	Start Time	11:05 AM	Sky Conditions Clear
	End Time	12:25 PM	Wind Speed 11 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	8	3	0	3
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/10/2018	OGI/FLIR
Thief Hatch	8/10/2018	OGI/FLIR
Thief Hatch	8/10/2018	OGI/FLIR
Thief Hatch	8/10/2018	OGI/FLIR
Thief Hatch	8/10/2018	OGI/FLIR
Thief Hatch	8/10/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Truchan #11X-33H

ID	Site Name	Truchan #11X-33H	Region 8
1601	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	8/18/2017	Ambient Temperature 61 °F
	Start Time	8:45 AM	Sky Conditions Overcast
	End Time	9:16 AM	Wind Speed 5 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Truchan #11X-33H

ID	Site Name	Truchan #11X-33H	Region 8
5913	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	2/2/2018	Ambient Temperature 4 °F
	Start Time	7:30 AM	Sky Conditions Cloudy
	End Time	8:15 AM	Wind Speed 2 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	2	0	2
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/19/2018	OGI
Thief Hatch	7/19/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Truchan #11X-33H

ID	Site Name	Truchan #11X-33H	Region 8
11991	State	NORTH DAKOTA	Surveyor (b) (6)
	County	DUNN	Person Trained and Experienced Yes
	Survey Date	9/4/2018	Ambient Temperature 65 °F
	Start Time	12:37 PM	Sky Conditions Clear
	End Time	1:02 PM	Wind Speed 16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Amundson 44-22 Pad Facility

ID	Site Name	Amundson 44-22 Pad Facility	Region 8
8260	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	3/9/2018	Ambient Temperature 27 °F
	Start Time	11:10 AM	Sky Conditions Cloudy
	End Time	12:20 PM	Wind Speed 13 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	15	15	0	15
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Amundson CTB

ID	Site Name	Amundson CTB	Region 8
12837	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	9/27/2018	Ambient Temperature 46 °F
	Start Time	12:07 PM	Sky Conditions Cloudy
	End Time	1:54 PM	Wind Speed 4 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	10/15/2018	OGI/FLIR
Thief Hatch	10/21/2018	OGI/FLIR
Thief Hatch	10/21/2018	OGI/FLIR
Thief Hatch	10/21/2018	OGI/FLIR
Thief Hatch	10/21/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Eckert 41X-06 CTB

ID	Site Name	Eckert 41X-06 CTB	Region 8
1596	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	8/9/2017	Ambient Temperature 58 °F
	Start Time	9:07 AM	Sky Conditions Cloudy
	End Time	10:30 AM	Wind Speed 11 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/9/2017	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Eckert 41X-06 CTB

ID	Site Name	Eckert 41X-06 CTB	Region 8
8019	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	3/28/2018	Ambient Temperature 24 °F
	Start Time	10:55 AM	Sky Conditions Clear
	End Time	12:05 AM	Wind Speed 12 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	3	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	15	15	0	15
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	4/18/2018	OGI/FLIR
Fitting	4/18/2018	OGI/FLIR
Fitting	4/18/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR
Thief Hatch	5/25/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Eckert 41X-06 CTB

ID	Site Name	Eckert 41X-06 CTB	Region 8
12447	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	8/22/2018	Ambient Temperature 59 °F
	Start Time	9:12 AM	Sky Conditions Clear
	End Time	10:30 AM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	10/17/2018	OGI/FLIR
Thief Hatch	10/17/2018	OGI/FLIR
Thief Hatch	10/17/2018	OGI/FLIR
Thief Hatch	10/17/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
ELK #28-4 DUPEROW

ID	Site Name	ELK #28-4 DUPEROW		Region 8
7912	State	NORTH DAKOTA	Surveyor	(b) (6)
County		MC KENZIE	Person Trained and Experienced	Yes
Survey Date		3/29/2018	Ambient Temperature	38 °F
Start Time		5:00 PM	Sky Conditions	Cloudy
End Time		5:45 PM	Wind Speed	8 mph
Deviations There were no deviations from the monitoring plan				

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 ELK #28-4 DUPEROW

ID	Site Name	ELK #28-4 DUPEROW	Region 8
12512	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	8/6/2018	Ambient Temperature 77 °F
	Start Time	1:40 PM	Sky Conditions Clear
	End Time	2:10 PM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	0	0	0
PRV	0	0	0	0
Thief Hatch	3	0	0	0
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/22/2018	OGI/FLIR
Gasket	8/27/2018	OGI/FLIR
Thief Hatch	8/22/2018	OGI/FLIR
Thief Hatch	8/22/2018	OGI/FLIR
Thief Hatch	8/22/2018	OGI/FLIR
Valve	8/29/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Harley Federal 24X-15 CTB

ID	Site Name	Harley Federal 24X-15 CTB	Region 8
5964	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	2/14/2018	Ambient Temperature 30 °F
	Start Time	9:10 AM	Sky Conditions Cloudy
	End Time	10:05 AM	Wind Speed 15 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	10	10	0	10
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	2/14/2018	OGI/FLIR
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	6/5/2018	OGI
Thief Hatch	7/13/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Harley Federal 24X-15 CTB

ID	Site Name	Harley Federal 24X-15 CTB	Region 8
12694	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	8/11/2018	Ambient Temperature 91 °F
	Start Time	6:30 PM	Sky Conditions Clear
	End Time	8:30 PM	Wind Speed 5 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	2	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	2	0	0	0
Stuffing box	1	0	0	0
Thief Hatch	4	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	8/19/2018	OGI/FLIR
Fitting	9/5/2018	OGI/FLIR
PRV	8/19/2018	OGI/FLIR
PRV	8/19/2018	OGI/FLIR
Stuffing box	8/19/2018	OGI/FLIR
Thief Hatch	8/19/2018	OGI/FLIR
Thief Hatch	8/19/2018	OGI/FLIR
Thief Hatch	8/19/2018	OGI/FLIR
Thief Hatch	9/5/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Homer 14X-32 Pad Facility

ID	Site Name	Homer 14X-32 Pad Facility	Region 8
8261	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	2/12/2018	Ambient Temperature 2 °F
	Start Time	1:30 PM	Sky Conditions Clear
	End Time	2:30 PM	Wind Speed 5 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	12	12	0	12
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	2/14/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Homer 14X-32 Pad Facility

ID	Site Name	Homer 14X-32 Pad Facility		Region 8
12901	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	MC KENZIE	Person Trained and Experienced	Yes
	Survey Date	8/11/2018	Ambient Temperature	100 °F
	Start Time	4:30 PM	Sky Conditions	Clear
	End Time	5:30 PM	Wind Speed	4 mph
	Deviations There were no deviations from the monitoring plan			

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	8/19/2018	OGI/FLIR
Thief Hatch	8/19/2018	OGI/FLIR
Thief Hatch	8/19/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Johnson 31-06 CTB

ID	Site Name	Johnson 31-06 CTB	Region 8
8840	State	NORTH DAKOTA	Surveyor (b) (6)
County		MC KENZIE	Person Trained and Experienced
Survey Date		2/28/2018	Yes
Start Time		11:10 AM	Ambient Temperature
End Time		1:00 PM	26 °F
			Sky Conditions
			Clear
			Wind Speed
			12 mph
Deviations There were no deviations from the monitoring plan			

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	1	0	1
Flange	1	1	0	1
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	6	6	0	6
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	6/4/2018	OGI/FLIR
Flange	6/4/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Johnson 31-06 CTB

ID	Site Name	Johnson 31-06 CTB	Region 8
12776	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	8/3/2018	Ambient Temperature 91 °F
	Start Time	1:05 PM	Sky Conditions Clear
	End Time	2:30 PM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	1	1	0	1
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	16	16	0	16
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/13/2018	OGI/FLIR
Connector	8/13/2018	OGI/FLIR
Fitting	9/7/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Thief Hatch	9/17/2018	OGI/FLIR
Valve	8/13/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Johnsrud Federal 34X-14 CTB

ID	Site Name	Johnsrud Federal 34X-14 CTB	Region 8
6711	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	3/2/2018	Ambient Temperature 32 °F
	Start Time	4:05 PM	Sky Conditions Clear
	End Time	6:00 PM	Wind Speed 16 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/3/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Klamm 34-09 CTB

ID	Site Name	Klamm 34-09 CTB	Region 8
6870	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	3/18/2018	Ambient Temperature 27 °F
	Start Time	1:40 PM	Sky Conditions Clear
	End Time	3:00 PM	Wind Speed 8 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	1	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	11	11	0	11
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	3/21/2018	OGI/FLIR
Flange	3/21/2018	OGI/FLIR
PRV	3/21/2018	OGI/FLIR
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/10/2018	OGI
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Lindvig 14-10 NEH

ID	Site Name	Lindvig 14-10 NEH		Region 8
7953	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	MC KENZIE	Person Trained and Experienced	Yes
	Survey Date	3/26/2018	Ambient Temperature	26 °F
	Start Time	9:55 AM	Sky Conditions	Clear
	End Time	10:50 AM	Wind Speed	12 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/3/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Lindvig 14-10 NEH

ID	Site Name	Region 8
12412	Lindvig 14-10 NEH	(b) (6)
	State NORTH DAKOTA	Surveyor
	County MC KENZIE	Person Trained and Experienced Yes
	Survey Date 8/1/2018	Ambient Temperature 67 °F
	Start Time 11:16 AM	Sky Conditions Cloudy
	End Time 12:02 PM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Valve	8/7/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Lund 21X-17/41X-17 CTB

ID	Site Name	Region 8
6720	State NORTH DAKOTA	(b) (6)
	County MC KENZIE	Person Trained and Experienced Yes
	Survey Date 2/13/2018	Ambient Temperature 2 °F
	Start Time 9:12 AM	Sky Conditions Clear
	End Time 11:50 AM	Wind Speed 16 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	8	8	0	8
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	12	12	0	12
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	6/26/2018	OGI
Thief Hatch	6/26/2018	OGI
Thief Hatch	6/26/2018	OGI
Thief Hatch	6/26/2018	OGI
Thief Hatch	6/26/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Lundin 11-04 Pad Facility

ID	Site Name	Lundin 11-04 Pad Facility	Region 8
6160	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	2/27/2018	Ambient Temperature 26 °F
	Start Time	1:07 PM	Sky Conditions Clear
	End Time	3:00 PM	Wind Speed 12 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	2	0	0	0
Thief Hatch	3	3	0	3
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	3/8/2018	OGI/FLIR
PRV	3/8/2018	OGI/FLIR
PRV	3/8/2018	OGI/FLIR
Thief Hatch	7/11/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Lundin 11-15 CTB

ID	Site Name	Lundin 11-15 CTB		Region 8
9501	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	MC KENZIE	Person Trained and Experienced	Yes
	Survey Date	6/9/2018	Ambient Temperature	68 °F
	Start Time	7:00 AM	Sky Conditions	Clear
	End Time	10:00 AM	Wind Speed	2 mph
Deviations There were no deviations from the monitoring plan				

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	9	9	0	9
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	6/22/2018	OGI/FLIR
Thief Hatch	8/21/2018	OGI
Thief Hatch	8/21/2018	OGI
Thief Hatch	8/21/2018	OGI
Thief Hatch	8/21/2018	OGI
Thief Hatch	9/11/2018	OGI
Thief Hatch	9/11/2018	OGI
Thief Hatch	9/11/2018	OGI
Thief Hatch	9/11/2018	OGI
Thief Hatch	9/11/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Nelson Federal 41X-05 Pad Facility

ID	Site Name	Nelson Federal 41X-05 Pad Facility	Region 8
8361	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	2/13/2018	Ambient Temperature 3 °F
	Start Time	8:00 AM	Sky Conditions Clear
	End Time	9:30 AM	Wind Speed 13 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	3	0	0	0
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	17	17	0	17
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	3/15/2018	OGI/FLIR
Cover	3/15/2018	OGI/FLIR
Cover	3/15/2018	OGI/FLIR
Fitting	2/13/2018	OGI/FLIR
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	6/22/2018	OGI
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Nelson Federal 41X-05 Pad Facility

8361



0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Nelson Federal CTB

ID	Site Name	Nelson Federal CTB	Region 8
12838	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	10/7/2018	Ambient Temperature 40 °F
	Start Time	4:30 PM	Sky Conditions Cloudy
	End Time	6:30 PM	Wind Speed 12 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	3	3	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 Nordeng 34X-23 CTB

ID	Site Name	Nordeng 34X-23 CTB		Region 8
6161	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	MC KENZIE	Person Trained and Experienced	Yes
	Survey Date	3/1/2018	Ambient Temperature	8 °F
	Start Time	9:10 AM	Sky Conditions	Clear
	End Time	11:00 AM	Wind Speed	1 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	7	7	0	7
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	3/5/2018	OGI/FLIR
Thief Hatch	6/21/2018	OGI
Thief Hatch	6/21/2018	OGI
Thief Hatch	6/21/2018	OGI
Thief Hatch	6/21/2018	OGI
Thief Hatch	6/21/2018	OGI
Thief Hatch	6/21/2018	OGI
Thief Hatch	6/21/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Rink 12-04 CTB

ID	Site Name	Rink 12-04 CTB	Region 8
6793	State NORTH DAKOTA	Surveyor	(b) (6)
	County MC KENZIE	Person Trained and Experienced	Yes
	Survey Date 3/20/2018	Ambient Temperature	37 °F
	Start Time 3:30 PM	Sky Conditions	Clear
	End Time 5:45 PM	Wind Speed	10 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Cover	1	0	0	0
Fitting	0	0	0	0
Flange	1	1	0	1
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Cover	4/3/2018	OGI/FLIR
Flange	6/4/2018	OGI/FLIR
Thief Hatch	6/8/2018	OGI
Thief Hatch	6/8/2018	OGI
Thief Hatch	7/24/2018	OGI/FLIR
Thief Hatch	7/24/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Rita 44X-34 CTB

ID	Site Name	Region 8
9432	Rita 44X-34 CTB	
	State NORTH DAKOTA	Surveyor (b) (6)

County MC KENZIE Person Trained and Experienced Yes
 Survey Date 6/11/2018 Ambient Temperature 64 °F
 Start Time 10:10 AM Sky Conditions Clear
 End Time 12:30 PM Wind Speed 1 mph
 Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	23	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	6/13/2018	OGI/FLIR
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Rita 44X-34 CTB

9432

Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI
Thief Hatch	6/28/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Roen 24X-23 CTB

ID	Site Name	Roen 24X-23 CTB	Region 8
8016	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	3/26/2018	Ambient Temperature 29 °F
	Start Time	12:45 PM	Sky Conditions Clear
	End Time	2:40 PM	Wind Speed 10 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	2	0	2
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	12	12	0	12
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/26/2018	OGI/FLIR
Connector	5/29/2018	OGI/FLIR
Fitting	3/26/2018	OGI/FLIR
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Roen 24X-23 CTB

ID	Site Name	Roen 24X-23 CTB	Region 8
12404	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	9/26/2018	Ambient Temperature 36 °F
	Start Time	8:10 AM	Sky Conditions Overcast
	End Time	9:05 AM	Wind Speed 10 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	10/11/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Ryan 14X-09 CTB

ID	Site Name	Region 8
7989	Ryan 14X-09 CTB	(b) (6)
State NORTH DAKOTA		Surveyor
County MC KENZIE		Person Trained and Experienced Yes
Survey Date 3/27/2018		Ambient Temperature 46 °F
Start Time 11:10 AM		Sky Conditions Clear
End Time 1:30 PM		Wind Speed 12 mph
Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	2	2	0	2
Flange	2	2	0	2
Gasket	1	1	0	1
PRV	0	0	0	0
Thief Hatch	10	10	0	10
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	6/26/2018	OGI/FLIR
Fitting	7/16/2018	OGI/FLIR
Flange	6/26/2018	OGI/FLIR
Flange	6/26/2018	OGI/FLIR
Gasket	6/26/2018	OGI/FLIR
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Sorenson 31X-28 CTB

ID	Site Name	Sorenson 31X-28 CTB	Region 8
6163	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	2/26/2018	Ambient Temperature 26 °F
	Start Time	9:20 AM	Sky Conditions Clear
	End Time	10:50 AM	Wind Speed 12 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Opening/Hole	1	0	0	0
PRV	1	0	0	0
Thief Hatch	6	6	0	6
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Opening/Hole	3/12/2018	OGI/FLIR
PRV	2/26/2018	OGI/FLIR
Thief Hatch	7/5/2018	OGI
Thief Hatch	7/5/2018	OGI
Thief Hatch	7/5/2018	OGI
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR
Thief Hatch	7/25/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

State 11-16 CTB

ID	Site Name	State 11-16 CTB	Region 8
8289	State NORTH DAKOTA	Surveyor	(b) (6)
	County MC KENZIE	Person Trained and Experienced	Yes
	Survey Date 2/13/2018	Ambient Temperature	18 °F
	Start Time 12:30 PM	Sky Conditions	Clear
	End Time 1:15 PM	Wind Speed	15 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	15	11	0	11
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	2/16/2018	OGI/FLIR
Thief Hatch	2/16/2018	OGI/FLIR
Thief Hatch	2/16/2018	OGI/FLIR
Thief Hatch	2/26/2018	OGI/FLIR
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI
Thief Hatch	6/7/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
State 11-16 CTB

ID	Site Name	State 11-16 CTB	Region 8
12927	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	8/10/2018	Ambient Temperature 78 °F
	Start Time	9:30 AM	Sky Conditions Clear
	End Time	10:58 AM	Wind Speed 6 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/31/2018	OGI/FLIR
Thief Hatch	8/31/2018	OGI/FLIR
Thief Hatch	8/31/2018	OGI/FLIR
Thief Hatch	8/31/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Stenehjem 31X-28 CTB

ID	Site Name	Stenehjem 31X-28 CTB	Region 8
3707	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	10/10/2017	Ambient Temperature 42 °F
	Start Time	8:30 AM	Sky Conditions Clear
	End Time	10:00 AM	Wind Speed 2 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Stenehjem 31X-28 CTB

ID	Site Name	Stenehjem 31X-28 CTB	Region 8
7972	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	3/27/2018	Ambient Temperature 26 °F
	Start Time	3:30 PM	Sky Conditions Clear
	End Time	5:20 PM	Wind Speed 12 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	12	12	0	12
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Tobacco Garden 11X-17 CTB

ID	Site Name	Tobacco Garden 11X-17 CTB	Region 8
9389	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	6/11/2018	Ambient Temperature 55 °F
	Start Time	8:30 AM	Sky Conditions Clear
	End Time	9:45 AM	Wind Speed 1 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	8	8	0	8
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	6/14/2018	OGI/FLIR
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI
Thief Hatch	8/17/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Tobacco Garden 24X-32 CTB

ID	Site Name	Tobacco Garden 24X-32 CTB	Region 6
3324	State	NORTH DAKOTA	Surveyor (b) (6)
	County	MC KENZIE	Person Trained and Experienced Yes
	Survey Date	9/26/2017	Ambient Temperature 46 °F
	Start Time	10:26 AM	Sky Conditions Cloudy
	End Time	12:40 PM	Wind Speed 2 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	3	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	1	0	1
PRV	1	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	10/2/2017	OGI/FLIR
Connector	10/2/2017	OGI/FLIR
Connector	10/3/2017	OGI/FLIR
Gasket	3/10/2018	OGI/FLIR
PRV	10/2/2017	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Tobacco Garden 24X-32 CTB

ID	Site Name	Tobacco Garden 24X-32 CTB		Region 8
6679	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	MC KENZIE	Person Trained and Experienced	Yes
	Survey Date	3/10/2018	Ambient Temperature	22 °F
	Start Time	1:45 PM	Sky Conditions	Clear
	End Time	3:30 PM	Wind Speed	12 mph
	Deviations There were no deviations from the monitoring plan			

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Tobacco Garden 24X-32 CTB

ID	Site Name	Region 8
12773	Tobacco Garden 24X-32 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County MC KENZIE	Person Trained and Experienced Yes
	Survey Date 10/9/2018	Ambient Temperature 35 °F
	Start Time 9:00 AM	Sky Conditions Cloudy
	End Time 11:00 AM	Wind Speed 10 mph
	Deviations There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	10/13/2018	OGI/FLIR
Thief Hatch	10/13/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Tobacco Garden 31-29 CTB

ID	Site Name	Tobacco Garden 31-29 CTB		Region 8
6977	State	NORTH DAKOTA	Surveyor	(b) (6)
County		MC KENZIE	Person Trained and Experienced	Yes
Survey Date		3/10/2018	Ambient Temperature	23 °F
Start Time		3:45 PM	Sky Conditions	Clear
End Time		5:10 PM	Wind Speed	14 mph
Deviations There were no deviations from the monitoring plan				

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	9	9	0	9
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	3/10/2018	OGI/FLIR
Thief Hatch	6/8/2018	OGI
Thief Hatch	7/18/2018	OGI/FLIR
Thief Hatch	7/18/2018	OGI/FLIR
Thief Hatch	7/18/2018	OGI/FLIR
Thief Hatch	7/18/2018	OGI/FLIR
Thief Hatch	7/18/2018	OGI/FLIR
Thief Hatch	7/18/2018	OGI/FLIR
Thief Hatch	7/26/2018	OGI/FLIR
Thief Hatch	7/26/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Tobacco Garden 31-29 CTB

ID	Site Name	Tobacco Garden 31-29 CTB		Region 8
12891	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	MC KENZIE	Person Trained and Experienced	Yes
	Survey Date	10/9/2018	Ambient Temperature	35 °F
	Start Time	12:15 PM	Sky Conditions	Overcast
	End Time	1:30 PM	Wind Speed	10 mph
Deviations There were no deviations from the monitoring plan				

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	3	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	3	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	10/9/2018	OGI/FLIR
Connector	10/9/2018	OGI/FLIR
Connector	10/13/2018	OGI/FLIR
Thief Hatch	10/13/2018	OGI/FLIR
Thief Hatch	10/13/2018	OGI/FLIR
Thief Hatch	10/13/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Albert 24X-01 CTB

ID	Site Name	Albert 24X-01 CTB	Region 8
8491	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	4/25/2018	Ambient Temperature 48 °F
	Start Time	10:05 AM	Sky Conditions Cloudy
	End Time	11:15 AM	Wind Speed 14 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	7	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Fitting	4/30/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR
Thief Hatch	5/15/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Albert 24X-01 CTB

ID	Site Name	Albert 24X-01 CTB	Region 8
12446	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	9/24/2018	Ambient Temperature 45 °F
	Start Time	11:06 AM	Sky Conditions Overcast
	End Time	12:01 PM	Wind Speed 6 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	0	0	0
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	10/8/2018	OGI/FLIR
Thief Hatch	10/15/2018	OGI/FLIR
Valve	10/8/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Allen 21X-17 CTB

ID	Site Name	Region
8987	Allen 21X-17 CTB	Region 8
	State NORTH DAKOTA	Surveyor (b) (6)

County Williams	Person Trained and Experienced	Yes
Survey Date 6/5/2018	Ambient Temperature	68 °F
Start Time 10:11 AM	Sky Conditions	Clear
End Time 12:10 PM	Wind Speed	8 mph
Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	1	0	1
Thief Hatch	6	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	7/24/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Allen 21X-17 CTB

ID	Site Name	Allen 21X-17 CTB	Region 8
12937	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	10/11/2018	Ambient Temperature 22 °F
	Start Time	10:49 AM	Sky Conditions Clear
	End Time	11:45 AM	Wind Speed 8 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Ames/Cheryl/Sara CTB

ID	Site Name	Ames/Cheryl/Sara CTB	Region 8
4991	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	10/10/2017	Ambient Temperature 29 °F
	Start Time	8:55 AM	Sky Conditions Clear
	End Time	12:35 PM	Wind Speed 8 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	3	3	0	3
Fitting	0	0	0	0
Flange	3	3	0	3
Gasket	0	0	0	0
PRV	2	2	0	2
Thief Hatch	24	24	0	24
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	2/14/2018	OGI/FLIR
Connector	2/14/2018	OGI/FLIR
Connector	2/14/2018	OGI/FLIR
Flange	2/14/2018	OGI/FLIR
Flange	2/14/2018	OGI/FLIR
Flange	2/14/2018	OGI/FLIR
PRV	2/14/2018	OGI/FLIR
PRV	2/14/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR
Thief Hatch	6/17/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Ames/Cheryl/Sara CTB

4991	Thief Hatch	6/17/2018	OGI/FLIR		
	Thief Hatch	6/17/2018	OGI/FLIR		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/9/2018	OGI		
	Thief Hatch	7/30/2018	OGI		
	Thief Hatch	7/30/2018	OGI		

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Ames/Cheryl/Sara CTB

ID	Site Name	Ames/Cheryl/Sara CTB	Region 8
10044	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	6/17/2018	Ambient Temperature 69 °F
	Start Time	4:20 PM	Sky Conditions Clear
	End Time	7:30 PM	Wind Speed 11 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	4	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	2	0	0	0
PRV	0	0	0	0
Thief Hatch	10	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	7/10/2018	OGI/FLIR
Connector	7/10/2018	OGI/FLIR
Connector	7/10/2018	OGI/FLIR
Connector	8/28/2018	OGI
Gasket	7/13/2018	OGI/FLIR
Gasket	7/13/2018	OGI/FLIR
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/9/2018	OGI
Thief Hatch	7/17/2018	OGI/FLIR
Thief Hatch	7/30/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Arley 21X-18 CTB

ID	Site Name	Arley 21X-18 CTB	Region 8
7920	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	4/4/2018	Ambient Temperature 25 °F
	Start Time	12:30 PM	Sky Conditions Clear
	End Time	1:45 PM	Wind Speed 0 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	1	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	5	5	0	5
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/18/2018	OGI/FLIR
Connector	4/18/2018	OGI/FLIR
Fitting	4/18/2018	OGI/FLIR
Thief Hatch	6/28/2018	OGI/FLIR
Thief Hatch	6/28/2018	OGI/FLIR
Thief Hatch	6/28/2018	OGI/FLIR
Thief Hatch	6/28/2018	OGI/FLIR
Thief Hatch	6/28/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Arley 21X-18 CTB

ID	Site Name	Region 8
12511	Arley 21X-18 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County Williams	Person Trained and Experienced Yes
	Survey Date 8/9/2018	Ambient Temperature 81 °F
	Start Time 11:20 AM	Sky Conditions Clear
	End Time 12:40 PM	Wind Speed 0 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/27/2018	OGI/FLIR
Connector	8/27/2018	OGI/FLIR
Thief Hatch	8/21/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
BARSTAD 32X-13

ID	Site Name	Region 8
8478	BARSTAD 32X-13	(b) (6)
	State NORTH DAKOTA	Surveyor
	County WILLIAMS	Person Trained and Experienced Yes
	Survey Date 4/25/2018	Ambient Temperature 58 °F
	Start Time 1:10 PM	Sky Conditions Cloudy
	End Time 1:40 PM	Wind Speed 14 mph
	Deviations There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
 BARSTAD 32X-13

ID	Site Name	BARSTAD 32X-13	Region 8
12374	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	9/28/2018	Ambient Temperature 29 °F
	Start Time	11:09 AM	Sky Conditions Clear
	End Time	11:38 AM	Wind Speed 9 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Boe State 31X-16 CTB

ID	Site Name	Boe State 31X-16 CTB	Region 8
8994	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	6/6/2018	Ambient Temperature 64 °F
	Start Time	10:30 AM	Sky Conditions Clear
	End Time	1:00 PM	Wind Speed 5 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	16	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
PRV	6/18/2018	OGI/FLIR
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI
Thief Hatch	7/3/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Carter 14X-12 CTB

ID	Site Name	Carter 14X-12 CTB	Region 8
8492	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	4/25/2018	Ambient Temperature 53 °F
	Start Time	11:35 AM	Sky Conditions Cloudy
	End Time	1:00 PM	Wind Speed 17 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	12	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI
Thief Hatch	5/16/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Carter 14X-12 CTB

ID	Site Name	Carter 14X-12 CTB	Region 8
12376	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	9/28/2018	Ambient Temperature 29 °F
	Start Time	10:32 AM	Sky Conditions Clear
	End Time	11:05 AM	Wind Speed 9 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
COLETTE 21X-18

ID	Site Name	COLETTE 21X-18	Region 8
8157	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	4/11/2018	Ambient Temperature 24 °F
	Start Time	10:30 AM	Sky Conditions Overcast
	End Time	11:00 AM	Wind Speed 13 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/11/2018	OGI/FLIR
Connector	5/2/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

COLETTE 21X-18

ID	Site Name	COLETTE 21X-18	Region 8
12501	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	8/17/2018	Ambient Temperature 76 °F
	Start Time	10:52 AM	Sky Conditions Overcast
	End Time	11:30 AM	Wind Speed 6 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/31/2018	OGI/FLIR
Gasket	8/31/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
 Evelyn 31X-03 CTB

ID	Site Name	Region 8
9413	Evelyn 31X-03 CTB	(b) (6)
State	NORTH DAKOTA	Surveyor
County	Williams	Person Trained and Experienced
Survey Date	6/12/2018	Ambient Temperature
Start Time	9:00 AM	Sky Conditions
End Time	11:00 AM	Wind Speed
Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	2	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	14	14	0	14
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	6/27/2018	OGI/FLIR
Fitting	6/27/2018	OGI/FLIR
Fitting	6/27/2018	OGI/FLIR
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI
Thief Hatch	8/23/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

HELEN 11X-5

ID	Site Name	HELEN 11X-5	Region 8
7922	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	4/4/2018	Ambient Temperature 18 °F
	Start Time	2:02 PM	Sky Conditions Clear
	End Time	2:25 PM	Wind Speed 8 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/11/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
HELEN 11X-5

ID	Site Name	HELEN 11X-5	Region 8
12380	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	9/5/2018	Ambient Temperature 44 °F
	Start Time	8:35 AM	Sky Conditions Clear
	End Time	9:03 AM	Wind Speed 3 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
JEFFREY 24X-10

ID	Site Name	JEFFREY 24X-10	Region 8
4423	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	11/15/2017	Ambient Temperature 18 °F
	Start Time	2:04 PM	Sky Conditions Clear
	End Time	2:25 PM	Wind Speed 3 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
JEFFREY 24X-10

ID	Site Name	JEFFREY 24X-10	Region 8
4424	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	11/9/2017	Ambient Temperature 2 °F
	Start Time	12:35 PM	Sky Conditions Cloudy
	End Time	1:15 PM	Wind Speed 6 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	11/9/2017	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

JEFFREY 24X-10

ID	Site Name	JEFFREY 24X-10	Region 8
9064	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	6/6/2018	Ambient Temperature 71 °F
	Start Time	1:40 PM	Sky Conditions Clear
	End Time	2:10 PM	Wind Speed 7 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/24/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
JMB 14X-15 CTB

ID	Site Name	JMB 14X-15 CTB	Region 8
5952	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	11/20/2017	Ambient Temperature 33 °F
	Start Time	10:35 AM	Sky Conditions Cloudy
	End Time	12:05 PM	Wind Speed 9 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	2	2	0	2
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	1	0	1
Thief Hatch	5	5	0	5
Valve	1	1	0	1

Repairs

Component	Repair Date	Resurvey Method
Fitting	3/16/2018	OGI/FLIR
Fitting	3/16/2018	OGI/FLIR
PRV	3/16/2018	OGI/FLIR
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Valve	3/16/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
JMB 14X-15 CTB

ID	Site Name	JMB 14X-15 CTB	Region 8
10045	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	6/8/2018	Ambient Temperature 66 °F
	Start Time	9:15 AM	Sky Conditions Clear
	End Time	1:00 PM	Wind Speed 14 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	2	0	2
Fitting	2	0	0	0
Flange	1	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	5	5	0	5
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/8/2018	OGI/FLIR
Connector	8/8/2018	OGI/FLIR
Fitting	6/8/2018	OGI/FLIR
Fitting	6/29/2018	OGI/FLIR
Flange	6/8/2018	OGI/FLIR
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI
Thief Hatch	7/17/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
KALDAHL 34X-11C

ID	Site Name	KALDAHL 34X-11C	Region 8
8103	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	4/10/2018	Ambient Temperature 27 °F
	Start Time	9:05 AM	Sky Conditions Cloudy
	End Time	9:30 AM	Wind Speed 2 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
KALDAHL 34X-11C

ID	Site Name	KALDAHL 34X-11C	Region 8
12415	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	8/20/2018	Ambient Temperature 65 °F
	Start Time	10:52 AM	Sky Conditions Overcast
	End Time	11:20 AM	Wind Speed 0 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/31/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
KELLY 41X-3

ID	Site Name	Region 8
8532	KELLY 41X-3	(b) (6)
	State NORTH DAKOTA	Surveyor
	County WILLIAMS	Person Trained and Experienced Yes
	Survey Date 4/27/2018	Ambient Temperature 54 °F
	Start Time 1:00 PM	Sky Conditions Clear
	End Time 1:40 PM	Wind Speed 11 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	2	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	5/16/2018	OGI/FLIR
Valve	5/16/2018	OGI/FLIR
Valve	5/16/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

KELLY 41X-3

ID	Site Name	KELLY 41X-3	Region 8
12405	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	9/5/2018	Ambient Temperature 50 °F
	Start Time	9:09 AM	Sky Conditions Clear
	End Time	9:57 AM	Wind Speed 3 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Valve	10/3/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
KLEPP 21X-1

ID	Site Name	KLEPP 21X-1	Region 8
7925	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	3/26/2018	Ambient Temperature 21 °F
	Start Time	1:15 PM	Sky Conditions Overcast
	End Time	1:50 PM	Wind Speed 7 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	4/10/2018	OGI/FLIR
Gasket	4/10/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
KLEPP 21X-1

ID	Site Name	KLEPP 21X-1	Region 8
12448	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	8/6/2018	Ambient Temperature 59 °F
	Start Time	8:32 AM	Sky Conditions Clear
	End Time	9:08 AM	Wind Speed 1 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	2	0	2
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	10/4/2018	OGI/FLIR
Thief Hatch	10/4/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Lisa 14X-34 CTB

ID	Site Name	Lisa 14X-34 CTB		Region 8
6631	State	NORTH DAKOTA		Surveyor (b) (6)
	County	Williams		Person Trained and Experienced Yes
	Survey Date	3/14/2018		Ambient Temperature 19 °F
	Start Time	11:41 AM		Sky Conditions Clear
	End Time	12:07 AM		Wind Speed 0 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	1	0	1
PRV	0	0	0	0
Thief Hatch	8	7	0	7
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Gasket	5/23/2018	OGI
Thief Hatch	4/3/2018	OGI/FLIR
Thief Hatch	5/23/2018	OGI/FLIR
Thief Hatch	5/23/2018	OGI/FLIR
Thief Hatch	5/23/2018	OGI/FLIR
Thief Hatch	5/23/2018	OGI/FLIR
Thief Hatch	5/23/2018	OGI/FLIR
Thief Hatch	5/23/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Lisa 14X-34 CTB

ID	Site Name	Lisa 14X-34 CTB	Region 8
12383	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	8/22/2018	Ambient Temperature 73 °F
	Start Time	12:14 PM	Sky Conditions Clear
	End Time	12:55 PM	Wind Speed 9 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Odegaard State 21X-16 CTB

ID	Site Name	Region 8
9412	Odegaard State 21X-16 CTB	(b) (6)
	State NORTH DAKOTA	Surveyor
	County Williams	Person Trained and Experienced Yes
	Survey Date 6/14/2018	Ambient Temperature 58 °F
	Start Time 7:00 AM	Sky Conditions Clear
	End Time 9:05 AM	Wind Speed 5 mph
	Deviations There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	1	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	6/27/2018	OGI/FLIR
Connector	8/13/2018	OGI
PRV	6/27/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Odegaard State 31X-16 CTB

ID	Site Name	Odegaard State 31X-16 CTB	Region 8
9625	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	6/14/2018	Ambient Temperature 58 °F
	Start Time	9:20 AM	Sky Conditions Clear
	End Time	11:05 AM	Wind Speed 15 mph
	Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	4	4	0	4
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	7/3/2018	OGI/FLIR
Connector	7/3/2018	OGI/FLIR
Thief Hatch	8/27/2018	OGI
Thief Hatch	8/27/2018	OGI
Thief Hatch	8/27/2018	OGI
Thief Hatch	8/27/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
PAL PROPERTIES 44X-1

ID	Site Name	PAL PROPERTIES 44X-1		Region 8
8481	State	NORTH DAKOTA	Surveyor	(b) (6)
	County	WILLIAMS	Person Trained and Experienced	Yes
	Survey Date	4/25/2018	Ambient Temperature	46 °F
	Start Time	9:15 AM	Sky Conditions	Cloudy
	End Time	12:00 AM	Wind Speed	13 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	2	2	0	2
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Raymond 21X-05 CTB

ID	Site Name	Raymond 21X-05 CTB		Region 8
9062	State	NORTH DAKOTA	Surveyor	(b) (6)
County		Williams	Person Trained and Experienced	Yes
Survey Date		6/7/2018	Ambient Temperature	61 °F
Start Time		9:40 AM	Sky Conditions	Clear
End Time		12:00 PM	Wind Speed	3.4 mph
Deviations There were no deviations from the monitoring plan				
Leaking Components				
	Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor
	Fitting	0	0	0
	Flange	0	0	0
	Gasket	0	0	0
	PRV	0	0	0
	Thief Hatch	5	5	0
	Valve	0	0	0
				Placed on Delay of Repair

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	8/20/2018	OGI
Thief Hatch	8/20/2018	OGI
Thief Hatch	8/20/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Smouse 31X-28 CTB

ID	Site Name	Smouse 31X-28 CTB	Region 8
6311	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	3/12/2018	Ambient Temperature 8 °F
	Start Time	10:16 AM	Sky Conditions Clear
	End Time	11:27 AM	Wind Speed 0 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	3	3	0	3
PRV	0	0	0	0
Thief Hatch	3	3	0	3
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Gasket	4/18/2018	OGI/FLIR
Gasket	4/27/2018	OGI/FLIR
Gasket	4/27/2018	OGI/FLIR
Thief Hatch	7/4/2018	OGI
Thief Hatch	7/4/2018	OGI
Thief Hatch	7/4/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Smouse 31X-28 CTB

ID	Site Name	Smouse 31X-28 CTB	Region 8
12506	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	8/8/2018	Ambient Temperature 76 °F
	Start Time	11:10 AM	Sky Conditions Clear
	End Time	12:05 PM	Wind Speed 6 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	2	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	8/17/2018	OGI/FLIR
Connector	8/17/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Thaxton 24X-35 Pad Facility

ID	Site Name	Thaxton 24X-35 Pad Facility	Region 8
7929	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	3/26/2018	Ambient Temperature 21 °F
	Start Time	12:11 PM	Sky Conditions Overcast
	End Time	1:00 PM	Wind Speed 5 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	11	11	0	11
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI
Thief Hatch	7/2/2018	OGI

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Thaxton 24X-35 Pad Facility

ID	Site Name	Thaxton 24X-35 Pad Facility	Region 8
12487	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	8/8/2018	Ambient Temperature 67 °F
	Start Time	8:50 AM	Sky Conditions Clear
	End Time	9:45 AM	Wind Speed 3 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Gasket	8/15/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Wallace 21X-02 CTB

ID	Site Name	Wallace 21X-02 CTB	Region 8
7931	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	3/26/2018	Ambient Temperature 19 °F
	Start Time	10:00 AM	Sky Conditions Overcast
	End Time	12:02 PM	Wind Speed 4 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	1	1	0	1
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	1	1	0	1
PRV	0	0	0	0
Thief Hatch	20	20	0	20
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Connector	6/25/2018	OGI/FLIR
Gasket	7/9/2018	Method 21/OVA
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	6/27/2018	OGI
Thief Hatch	7/30/2018	OGI
Thief Hatch	7/30/2018	OGI
Thief Hatch	7/30/2018	OGI

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018

Wallace 21X-02 CTB

7931

Thief Hatch

7/30/2018

OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Wallace 21X-02 CTB

ID	Site Name	Wallace 21X-02 CTB	Region 8
12507	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	8/9/2018	Ambient Temperature 65 °F
	Start Time	9:00 AM	Sky Conditions Clear
	End Time	10:15 AM	Wind Speed 0 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	2	0	0	0
PRV	0	0	0	0
Thief Hatch	1	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Gasket	8/15/2018	OGI/FLIR
Gasket	8/17/2018	OGI/FLIR
Thief Hatch	8/15/2018	OGI/FLIR

OOOOa LDAR Surveys between 8/3/2017 and 10/14/2018
Wood 21X-25 Pad Facility

ID	Site Name	Wood 21X-25 Pad Facility	Region 8
8507	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	5/1/2018	Ambient Temperature 43 °F
	Start Time	9:50 AM	Sky Conditions Cloudy
	End Time	11:25 AM	Wind Speed 2 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Connector	3	3	0	3
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	10	3	0	3
Valve	1	1	0	1

Repairs

Component	Repair Date	Resurvey Method
Connector	6/22/2018	OGI/FLIR
Connector	6/22/2018	OGI/FLIR
Connector	7/2/2018	OGI/FLIR
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	5/30/2018	OGI
Thief Hatch	7/17/2018	OGI/FLIR
Thief Hatch	7/17/2018	OGI/FLIR
Thief Hatch	7/28/2018	OGI/FLIR
Valve	6/22/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
WOODROW 34X-32

ID	Site Name	Region 8
8511	WOODROW 34X-32	(b) (6)
	State NORTH DAKOTA	Surveyor
	County WILLIAMS	Person Trained and Experienced Yes
	Survey Date 5/2/2018	Ambient Temperature 47 °F
	Start Time 9:40 AM	Sky Conditions Cloudy
	End Time 10:15 AM	Wind Speed 12 mph

Deviations There were no deviations from the monitoring plan

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	1	1	0	1
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Thief Hatch	7/2/2018	OGI

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018
WOODROW 34X-32

ID	Site Name	WOODROW 34X-32	Region 8
12391	State	NORTH DAKOTA	Surveyor (b) (6)
	County	WILLIAMS	Person Trained and Experienced Yes
	Survey Date	9/7/2018	Ambient Temperature 52 °F
	Start Time	9:26 AM	Sky Conditions Overcast
	End Time	10:15 AM	Wind Speed 12 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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Woodrow Compressor Station

ID	Site Name	Woodrow Compressor Station	Region 8
4522	State	NORTH DAKOTA	(b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	9/19/2017	Ambient Temperature 59 °F
	Start Time	9:00 AM	Sky Conditions Overcast
	End Time	10:10 AM	Wind Speed 12 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method

0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Woodrow Compressor Station

ID	Site Name	Woodrow Compressor Station	Region 8
4900	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	12/15/2017	Ambient Temperature 36 °F
	Start Time	11:00 AM	Sky Conditions Cloudy
	End Time	12:40 AM	Wind Speed 14 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Woodrow Compressor Station

ID	Site Name	Woodrow Compressor Station	Region 8
6404	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	3/14/2018	Ambient Temperature 13 °F
	Start Time	9:50 AM	Sky Conditions Overcast
	End Time	10:40 AM	Wind Speed 4 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018

Woodrow Compressor Station

ID	Site Name	Woodrow Compressor Station	Region 8
9237	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	6/8/2018	Ambient Temperature 70 °F
	Start Time	9:50 AM	Sky Conditions Overcast
	End Time	10:30 AM	Wind Speed 10 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	1	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Valve	6/8/2018	OGI/FLIR

0000a LDAR Surveys between 8/3/2017 and 10/14/2018
Woodrow Compressor Station

ID	Site Name	Woodrow Compressor Station	Region 8
10494	State	NORTH DAKOTA	Surveyor (b) (6)
	County	Williams	Person Trained and Experienced Yes
	Survey Date	8/14/2018	Ambient Temperature 73 °F
	Start Time	2:00 PM	Sky Conditions Clear
	End Time	3:00 AM	Wind Speed 4 mph
	Deviations	There were no deviations from the monitoring plan	

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Compressor	1	0	0	0
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
Piping	1	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
Compressor	8/28/2018	OGI/FLIR
Piping	8/28/2018	OGI/FLIR

OOOa LDAR Surveys between 8/3/2017 and 10/14/2018

RIVER BEND UNIT 13-35B

ID	Site Name	Region
7470	RIVER BEND UNIT 13-35B	Region 8
	State UTAH	Surveyor (b) (6)
	County UINTAH	Person Trained and Experienced Yes
	Survey Date 8/23/2017	Ambient Temperature 65 °F
	Start Time 5:20 AM	Sky Conditions Clear
	End Time 5:30 AM	Wind Speed 10 mph
Deviations There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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0000a LDAR Surveys between 8/3/2017 and 10/14/2018
RIVER BEND UNIT 13-35B

ID	Site Name	RIVER BEND UNIT 13-35B		Region 8
9341	State	UTAH	Surveyor	(b) (6)
	County	UINTAH	Person Trained and Experienced	Yes
	Survey Date	5/15/2018	Ambient Temperature	72 °F
	Start Time	10:20 AM	Sky Conditions	Clear
	End Time	10:30 AM	Wind Speed	1 mph
	Deviations	There were no deviations from the monitoring plan		

Leaking Components

Type	Count	Not Repaired as Required	Difficult or Unsafe to Monitor	Placed on Delay of Repair
Fitting	0	0	0	0
Flange	0	0	0	0
Gasket	0	0	0	0
PRV	0	0	0	0
Thief Hatch	0	0	0	0
Valve	0	0	0	0

Repairs

Component	Repair Date	Resurvey Method
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